Statistics 1987-1988

A statistical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1988.

Ontario

Ministry of Natural Resources

Vincent G. Kerrio
Minister

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* See page 85 for a full listing of Administration Division branches

PLANNING AND ENVIRONMENTAL ASSESSMENT BRANCH

MUNICIPAL PLAN INPUT & REVIEW

Fiscal year 1987/88

MUNICIPAL PLAN INPUT	
Official Plans & Official Plan Amendments	849
Zoning Bylaws & Zoning Bylaw Amendments	4,269
Subdivisions & Condominiums	191
Severances & Minor Variances	3,767
Other External Plans	433
Sub Total	9,509
MUNICIPAL PLAN REVIEW	
Official Plans & Official Plan Amendments	1,022
Zoning Bylaws & Zoning Bylaw Amendments	5,034
Subdivisions & Condominiums	996
Severances & Minor Variances	8,928
Other External Plans	1,405
Sub Total	17,385
TOTAL PLAN INPUT & REVIEW EFFORTS FOR 1987/88	
Official Plans & Official Plan Amendments	1,871
Zoning Bylaws & Zoning Bylaw Amendments	9,303
Subdivisions & Condominiums	1,187
Severances & Minor Variances	12,695
Other External Plans	1,838
TOTAL	26,894

FOREST RESOURCES GROUP

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General Manager..... Doug Drysdale

FOREST RESOURCES BRANCH

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1988

Use	Bare Root Ministry	Container Ministry	Container Contract	Total
Crown Land and Agreement Forest	61,027,258	7,951,483	71,014,933	139,993,674
WIA	7,976,315	—	—	7,976,315
Other Private Land	14,683,118	—	—	14,683,118
Education or Science	603,904	—	—	603,904
Miscellaneous	96,850	—	—	96,850
TOTAL	84,387,445	7,951,483	71,014,933	163,353,861

FOREST TREES PRODUCED AND PURCHASED BY THE MINISTRY

YEARS	MINISTRY NO. OF TREES BARE ROOT	MINISTRY NO. OF TREES CONTAINERS	CONTRACT CONTAINERS	NO. OF TREES TOTAL
1975	59,794,450	3,148,406	-	62,942,856
1976	50,944,733	5,346,866	-	56,291,599
1977	45,981,122	4,291,764	-	50,272,886
1978	48,291,842	5,461,375	-	53,753,217
1979	52,928,125	5,487,210	-	58,415,335
1980	61,453,461	7,944,817	-	69,398,278
1981	65,360,243	10,496,839	-	75,857,082
1982	69,448,150	13,950,538	-	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657
1984	67,472,981	14,743,138	25,256,448	107,472,567
1985	52,183,189	13,964,217	62,084,413	128,231,819
1986	70,342,952	8,750,363	70,483,959	149,577,274
1987	69,307,593	7,646,953	77,735,254	154,689,800
1988	84,387,445	7,951,483	71,014,933	163,353,861

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock		
Conifers	82,665,468	
Hardwoods	1,721,977	84,387,445
Container Stock (Conifers)		
Ministry Facilities	7,951,483	
Contract Facilities	71,014,933	78,966,416
Planting stock total		163,353,861

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

SPECIES	1984	1985	1986	1987	1988
White Spruce	15,037,822	11,302,704	17,113,719	13,934,765	14,215,323
Black Spruce	35,772,366	48,298,559	57,819,505	63,692,384	68,240,060
Red Pine	7,125,973	4,771,746	5,087,527	5,060,898	7,017,445
Jack Pine	33,456,807	45,991,911	50,190,145	53,698,739	54,236,021
White Pine	7,575,437	9,809,085	9,119,240	9,291,400	11,210,562
White Cedar	2,355,744	1,788,336	1,253,611	2,965,399	1,654,335
Scotch Pine	1,874,825	2,346,725	2,831,925	2,659,254	1,850,796
Silver Maple	413,503	594,032	329,217	166,912	201,850
Norway Spruce	873,810	487,910	1,515,633	879,432	1,909,135
Carolina Poplar	404,128	302,230	463,823	371,440	334,630
Black Walnut	330,585	319,425	330,650	193,327	188,050
White Ash	100,099	71,706	382,825	25,099	70,275
European Larch	123,540	59,925	78,170	347,310	429,875
Red Oak	179,827	42,858	189,119	283,343	244,285
Black Locust	158,875	67,640	197,575	147,850	185,150
Tamarack	163,826	260,560	136,673	165,675	817,033
Hemlock	17,264	23,600	25	–	4,675
Hybrid Poplar					
Rooted	52,504	26,730	20,036	20,186	35,075
Unrooted	954,520	935,081	1,077,430	549,020	285,182
Japanese Larch	162,350	102,350	31,250	59,555	24,660
Other Species	338,762	628,706	409,176	177,812	199,444
TOTAL	107,472,567	128,231,819	149,577,274	154,689,800	163,353,861

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in year ending March 31

County, District or Regional Municipality	1984	1985	1986	1987	1988
Algoma	373,630	255,078	210,115	574,000	103,575
Brant	169,600	144,345	191,400	170,525	143,950
Bruce	193,992	176,485	225,790	209,000	346,175
Cochrane	792,140	257,925	23,625	2,750	265,700
Dufferin	368,495	390,450	563,555	496,750	427,375
Dundas	121,360	75,901	295,890	158,090	74,860
Durham*	531,925	489,175	599,144	462,[illegible]52	588,050
Elgin	197,437	216,217	241,585	257,275	281,100
Essex	225,781	138,837	268,897	285,050	266,500
Frontenac	115,110	152,325	230,250	210,130	327,420
Glengarry	74,800	129,550	141,500	120,630	93,010
Grey	568,150	529,653	724,550	476,711	643,400
Haldimand - Norfolk	468,362	488,959	643,780	630,559	456,800
Haliburton	23,700	36,850	36,000	25,625	37,575
Halton	182,883	126,515	142,000	138,850	148,200
Hastings	360,897	227,013	357,350	262,223	327,385
Huron	244,654	274,237	164,594	119,045	116,800
Kenora	529,050	264,375	310,775	60,750	149,220
Kent	270,300	157,050	185,550	254,450	239,250
Lambton	150,309	94,571	261,774	271,850	180,650
Lanark	158,850	143,700	167,550	144,120	175,700
Leeds & Grenville	328,626	266,150	275,777	277,610	319,282
Lennox & Addington	109,600	69,700	187,950	130,129	144,535
Manitoulin	20,125	10,600	15,075	24,435	15,250
Middlesex	480,350	329,960	557,295	476,415	454,100
Muskoka	56,459	154,650	121,050	54,050	37,000
Niagara	310,746	195,152	367,221	257,622	302,050
Nipissing	293,100	187,757	292,637	169,200	213,825
Northumberland*	387,473	266,280	321,995	342,351	305,675
Ontario*	-	570	-	-	-
Ottawa-Carleton	162,805	197,155	262,665	324,750	324,160
Oxford	150,975	136,680	258,540	268,650	198,400
Parry Sound	155,225	64,035	112,200	71,210	122,650
Peel	192,635	292,235	180,070	106,289	300,650
Perth	114,115	93,650	155,100	144,595	182,450

County, District or Regional Municipality	1984	1985	1986	1987	1988
Peterborough	217,215	174,562	233,655	192,700	280,520
Prescott	131,150	120,700	100,235	231,750	101,840
Prince Edward	166,150	173,700	185,600	84,227	91,205
Rainy River	67,940	382,900	186,467	82,025	289,150
Renfrew	595,720	207,750	373,420	309,750	252,810
Russell	133,855	144,732	221,223	330,780	212,655
Simcoe	1,096,576	1,061,074	1,300,620	1,097,245	1,108,625
Stormont	93,095	182,290	67,700	202,760	175,041
Sudbury	490,255	358,807	512,853	271,950	514,975
Thunder Bay	206,150	241,575	230,520	403,055	1,833,250
Timiskaming	154,950	43,850	30,125	305,650	25,140
Victoria	251,689	200,502	260,079	187,255	149,235
Waterloo	190,075	139,425	111,521	106,955	161,450
Wellington	675,938	938,051	847,381	796,225	597,825
Wentworth	350,579	244,825	266,840	281,961	267,950
York	478,705	471,518	504,410	504,956	308,725
Durham Regional Municipality	400	-	-	150	-

TOTALS

1984	14,184,101**
1985	12,120,046**
1986	14,525,898**
1987	13,367,345**
1988	14,683,118**

* These figues do not reflect the formation of the Regional Municipality of Durham.

** Excluding Woodlands Improvement Act

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1988

Agreement Holders	Term of Agreement	Released 1987-88	Added 1987-88	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr.1961 - Mar.2011	--	1,043.44	2,747.57
22 CONSERVATION AUTHORITIES				
Ausable Bayfield	Jan.1983 - Mar.2004			1,905.26
Cataraqui Region	Apr.1971 - Mar.1996			342.31
Catfish Creek	Apr.1962 - Mar.2002			254.55
Crowe Valley	Jan.1963 - Dec.2003			80.94
Ganaraska Region	Apr.1977 - Mar.2002			4,242.14
Grand River	Apr.1961 - Mar.2000			1,657.72
Grey Sauble	Jan.1985 - Mar.2005			4,495.55
Lakehead Region	May 1958 - Apr.2008			670.85
Long Point Region	Apr.1982 - Mar.2000		105.00	2,753.25
Lower Thames Valley	Apr.1984 - Mar.2004			121.41
Maitland Valley	Apr.1955 - Mar.2005			343.58
Metropolitan Toronto & Region	Apr.1975 - Mar.2000			785.38
Moira River	Apr.1978 - Mar.2000			6,766.66
Napanee Region	Oct.1954 - Oct.2004			2,732.44
Niagara Peninsula	June 1963 - Mar.2003			95.52
Otonabee Region	Apr.1976 - Mar.2002			1,497.42
Raisin Region	Apr.1971 - Mar.2001			137.59
Saugeen Valley	June 1985 - May 2005		1,707.77	7,053.86
Sault Ste. Marie Region*	Apr.1987 - Mar.2007		32.00	32.00
South Nation River	Apr.1975 - Mar.2000		3.00	3,176.99
St. Clair Region	May 1985 - Apr.2005			60.70
Upper Thames River	Apr.1961 - Mar.2001			1,363.29
Sub-total		--	1,847.77	40,569.41

* New Agreement

Agreement Holders	Term of Agreement	Released 1987-88	Added 1987-88	Total
8 TOWNSHIPS				
Charlottenburgh	Apr.1975 - Mar.1995			77.70
Cramahe	Apr.1963 - Mar.2003			65.56
Cumberland	July 1980 - June 2030		226.62	598.30
Darlington	Apr.1971 - Mar.1991			56.66
Machar	Sept.1963 - Aug.1993			36.42
Mosa	Apr.1963 - Mar.2003			58.27
West Carleton	Apr.1983 - Mar.2003			174.34
Williamsburg	Apr.1962 - Mar.2002			161.87
Sub-total		—	226.62	1,229.12
19 COUNTIES				
Brant	Apr.1960 - Mar.2000			40.19
Bruce	Apr.1962 - Mar.2002			6,106.03
Dufferin	Apr.1971 - Mar.1991			1,019.21
Grey	Apr.1960 - Mar.2000	178.06		3,303.13
Huron	Apr.1960 - Mar.2000			662.30
Kent	Apr.1960 - Mar.2000			30.51
Lanark	Apr.1980 - Mar.2000		162.00	4,427.92
Leeds & Grenville	Apr.1975 - Mar.1995			5,802.18
Lennox & Addington	Apr.1960 - Mar.2000			473.04
Middlesex	Apr.1960 - Mar.2000		32.00	1,012.96
Northumberland	Apr.1981 - Mar.2001			2,603.98
Oxford	Apr.1961 - Mar.2000			342.06
Peterborough	Apr.1981 - Mar.2001			80.94
Prescott & Russell	Apr.1983 - Mar.2003			10,436.31
Renfrew	Apr.1960 - Mar.2000			6,435.31
Simcoe	Apr.1960 - Mar.2000	2.81	50.00	10,697.79
Stormont, Dundas & Glengarry	Apr.1975 - Mar.2000			3,233.63
Victoria	Nov.1976 - Mar.2000			3,794.31
Wellington	Apr.1963 - Mar.2003			521.44
Sub-Total		180.87	244.00	61,023.24

Agreement Holders	Term of Agreement	Released 1987-88	Added 1987-88	Total
5 REGIONAL MUNICIPALITIES				
Durham	May 1980 - Apr.2000			589.82
Halton	Apr.1976 - Mar.2000			632.14
Ottawa-Carleton	Apr.1974 - Mar.2004		1,912.55	7,534.25
Waterloo	Apr.1976 - Mar.2001			313.44
York	Apr.1977 - Mar.2027			2,030.48
Sub-total		--	1,912.55	11,100.13
INDUSTRY				
Domtar Inc.	Apr.1974 - Mar.1999	--	--	1,596.52

TOTAL

56 Managed Forest Areas
Added 1987-88 5,274.38
Released 1987-88 180.87
Total 118,265.99

SILVICULTURAL OPERATIONS

Classification of Cutover Forest Land
for year ended March 31, 1987

Area in hectares

	Crown Land	FMAs	Total Crown Land	Agree-ment Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, even-aged management	81,222	106,877	188,099	45	21	8,209	196,374
Harvest Cut, uneven-aged management	13,770	—	13,770	138	861	17,321	32,090
Total	94,992	106,877	201,869	183	882	25,530	228,464

Area Cut on
Crown and Patent Land
in years ending March 31

Area in hectares

	1983	1984	1985	1986	1987
Harvest Cut, even-aged management	153,086	187,319	185,172	192,268	196,374
Harvest Cut uneven-aged management	30,122	30,487	32,812	31,249	32,090
Total	183,208	217,806	217,984	223,517	228,464

SUMMARY OF SILVILCUTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1988

	Crown Land	Forest Management Agreements	Total Crown Land
REGENERATION			
Planting Bare Root Stock	10,207	17,921	28,128
Planting Container Stock	10,630	24,357	34,987
Planting Hybrid Poplar Cuttings	139	–	139
Seeding	6,845	19,465	26,310
Scarification	327	425	752
Haro	–	1,905	1,905
Strip Cutting	98	878	976
Seed Tree Cutting	1,834	1,411	3,245
Shelterwood Cutting	9,067	–	9,067
Clear Cutting	7,042	12,576	19,618
Total	46,189	78,938	125,127
RE-TREATMENT			
Re-treatment area included in planting and total regeneration figures above	583	1,905	2,488
TENDING			
Hand Cleaning	5,196	54	5,250
Herbicide Spraying	18,200	45,871	64,071
Thinning & Improvement	6,796	395	7,191
Pruning	459	–	459
Fertilization Drainage	9	–	9
Total	30,660	46,320	76,980
SITE PREPARATION	40,883	71,724	112,607
UNEVEN-AGED MANAGEMENT	26,532	–	26,532
TOTAL AREA TREATED	144,264	196,982	341,246

Agreement Forests	W.I.A.	Sub-total	Other Patent Lands	Total
224	4,528	32,880	4,857	37,737
66	83	35,136	24	35,160
159	–	298	58	356
4	–	26,314	–	26,314
–	13	765	–	765
–	–	1,905	–	1,905
–	–	976	–	976
–	–	3,245	–	3,245
3	124	9,194	522	9,716
65	15	19,698	107	19,805
521	4,763	130,411	5,568	135,979
6	659	3,153	–	3,153
441	948	6,639	–	6,639
889	2,429	67,389	393	67,782
1,149	1,346	9,686	2,285	11,971
537	391	1,387	55	1,442
350	42	401	84	485
3,366	5,156	85,502	2,817	88,319
503	1,879	114,989	472	115,461
578	2,313	29,423	9,293	38,716
4,968	14,111	360,325	18,150	378,475

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1984	1985	1986	1987	1988
REGENERATION					
Planting Bare Root Stock	21,286	15,527	22,725	22,620	28,128
Planting Container Stock	17,889	36,963	38,521	39,885	34,987
Planting Hybrid Poplar Cuttings	286	100	358	48	139
Seeding	21,180	15,908	18,683	20,925	26,310
Scarification	1,110	879	1,050	447	752
Haro	-	-	-	-	1,905
Strip Cutting	718	1,145	1,641	1,032	976
Seed Tree Cutting	4,204	2,489	2,361	2,367	3,245
Shelterwood Cutting	10,308	9,232	8,771	8,717	9,067
Clear Cutting	14,121	8,960	9,437	15,351	19,618
Total	91,102	91,203	103,547	111,392	125,127
RE-TREATMENT	3,483	3,949	4,462	3,764	2,488
TENDING					
Hand Cleaning	6,282	7,696	9,384	10,660	5,250
Herbicide Spraying	21,125	42,023	57,566	59,279	64,071
Thinning & Improvement	6,908	6,591	8,845	9,404	7,191
Pruning	751	596	934	1,017	459
Fertilization Drainage	207	58	65	9	9
Total	35,273	56,964	76,794	80,369	76,980
SITE PREPARATION	74,064	83,808	94,687	107,072	112,607
MARKING	42,301	-	-	-	-
UNEVEN-AGED MANAGEMENT	-	11,769	13,529	13,202	26,532
TOTAL AREA TREATED	242,740	243,744	288,557	312,035	341,246

TREE SEED PROGRAM 1987-88

SEED COLLLECTION

Seed Crop by Species	Volume Collected (hl)
Jack Pine	11,858.32
White Pine	2,392.15
Black Walnut	970.50
Red Pine	159.90
Black Spruce	73.48
White Spruce	32.40
Tamarack	1.04
Other Species	203.12
Total	15,690.91

DISTRIBUTION OF SEED SHIPPED

Seeding	1,531,030,109
Bareroot Stock Production	351,185,371
Container Stock Production	389,944,692
Research and Miscellaneous	21,330,960
Seed Sale	11,544,320
Total viable seed shipped	2,305,035,452

SEED IN STORAGE AS OF MARCH 31, 1988

	Seed Extraction facility		
	Dryden	Angus	Total
No. of viable seed (billion)	3.683	10.734	14.417
No. of species	1	42	43
Total weight (kg)	13,457	38,652	52,109
Total value ($million)	$2.915	$9.677	$12.592

CONTROLLED COLLECTION AREAS

Areas in hectares

Species	Seed Collection* Areas (ha)	Seed Production Areas (ha)	Seed Orchards** (ha)
Jack Pine	14,029.00	1,192.80	223.00
Black Spruce	1,002.30	182.20	263.40
White Pine	567.00	618.10	123.10
White Spruce	126.80	202.00	171.00
Red Pine	698.70	569.90	5.70
Others	156.20	37.50	6.70
Total	16,580.00	2,802.50	792.90

* Total area is given, but actual annual collection area is only a portion of the stand.

** planted to date

FORESTRY EXTENSION ACTIVITIES 1987-88

Field inspections	9,436
Management programs prepared	2,689
Volume of timber marked - sawlogs (cubic metres)	111,771
- pulpwood (cubic metres)	14,578
- fuelwood (cubic metres)	197,110
Forestry education activities	1,641
Total trees planted - private orders	14,683,118

THE WOODLANDS IMPROVEMENT ACT 1987-88

	No. of Agreements	Area in Hectares
New W.I.A. Agreements activated in 1987-88	535	7,487
Total W.I.A. Agreements in effect to March 31, 1988	9,963	137,800
New Advisory Service Agreements activated in 1987-88	43	835
Advisory Service Agreements in effect to March 31, 1988	387	6,781

Total Trees Planted - W.I.A.: 7,976,315

TIMBER SALES BRANCH

MANAGEMENT UNITS

Areas in square kilometres

Year	CROWN LAND FORESTS Crown No.	Crown Area	Company No.	Company Area	FMA No.	FMA Area	TOTAL No.	TOTAL Area	AGREEMENT FORESTS No.	AGREEMENT FORESTS Area
1984	75	321,122	12	126,461	17	88,971	104	536,554	58	1,108
1985	74	330,575	10	104,577	22	113,631	106	548,783	58	1,108
1986	77	336,864	14	70,909	26	141,030	117	548,803	57	1,105
1987	69	298,554	14	72,189	28	162,689	111	533,432	56	1,104
1988	65	285,974	15	69,631	29	177,293	109	532,898	55	1,104

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1988

Area in square kilometres

	FOREST MANAGEMENT UNITS Crown No.	Crown Area	Company No.	Company Area	FMA No.	FMA Area	AGREEMENT FORESTS No.	AGREEMENT FORESTS Area
approved plans	49	162,081	12	60,991	28	170,686	42	782
submitted for review and approval	2	13,505	1	7,561	1	6,607	3	14
plans being prepared	4	4,041	2	1,079	0	0	10	308
plans not required (inactive)	10	106,347	–	–	–	–	–	–
unalienated Crown Lands	–	3,804	–	–	–	–	–	–
Total	65	289,778	15	69,631	29	177,293	55	1,104

TIMBER LICENCES under the Crown Timber Act

Areas in square kilometres at March 31

Year of Sale	Under Section 2 by Tender No.	Area	Under Section 3 Order-in-Council No.	Area	Under Section 5 Salvage No.	Area	Under Section 6 For. Mgmt. Agr. No.	Area	Total Licences No.	Area
1984	34	37.4	442	159,133.5	29	407.9	17	88,998.9	522	248,577.7
1985	34	27.0	456	141,368.3	27	169.6	22	113,122.2	539	254,687.1
1986	35	27.6	443	111,578.5	32	389.0	26	145,288.6	536	256,384.7
1987	26	36.0	405	88,250.1	19	300.1	27	150,625.9	477	239,212.1
1988	33	40.2	447	82,413.2	16	269.5	30	177,717.8	526	260,440.7
Issued 1987/88	21	13.7	205	13,397.0	14	15.3	3	27,194.9	243	40,620.9

Note: Number of District Cutting Licences/Permits issued during 1987/88 was 6,558; and timber supply agreements signed under Section 4 during 1987/88 was 1 bringing the current total to 18.

MILL LICENCES

Type of Mill	1983	1984	1985	1986	1987
Saw Mills, 8-hour capacity					
Lumber (over 50 M fbm)	58	55	53	53	51
Lumber (10 M to 50 M fbm)	88	72	69	74	65
Lumber (under 10 M fbm)	613	599	610	600	512
Misc. Sawn Products	44	45	30	35	12
Saw Mills, Total	803	771	762	762	640
Veneer and Panelboard Mills	25	28	27	26	23
Pulp Mills	20	20	20	20	20
TOTAL	848	819	809	808	683

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres for years ending March 31

Note: Figures for 1988 not available at time of publication.

Species	1983	1984	1985	1986	1987
SOFTWOODS					
Balsam	586,883	638,428	723,544	809,984	1,047,717
Cedar	17,195	18,667	23,478	16,741	22,555
Hemlock	47,361	65,111	79,230	71,554	73,435
Jack Pine	4,135,200	5,182,626	5,618,274	5,578,024	5,753,027
Red Pine	168,759	193,575	197,854	400,155	252,322
White Pine	563,024	754,044	728,257	654,854	738,686
Spruce	6,707,133	8,423,622	8,987,681	8,407,275	8,830,198
Tamarack	1,168	2,740	1,311	3,725	4,290
Mixed	30,599	20,691	14,236	18,238	8,064
Total softwoods	12,257,322	15,299,504	16,373,865	15,764,214	16,730,295
HARDWOODS					
Ash	1,558	1,516	3,770	1,956	2,337
Basswood	7,769	8,544	27,777	12,099	13,312
Beech	18,377	17,999	32,996	39,951	30,258
White Birch	93,562	83,668	180,990	253,340	271,154
Yellow Birch	78,058	94,616	106,382	109,828	104,686
Butternut	36	21	38	43	20
Cherry	1,584	2,046	2,269	1,830	2,022
Elm	165	35	19	18	98
Maple	164,317	204,384	447,911	364,855	382,522
Oak	10,415	14,190	13,960	23,937	20,242
Poplar	1,505,038	2,243,088	2,641,390	2,768,308	2,557,055
Mixed	648,317	743,665	852,634	257,608	725,170
Total hardwoods	2,529,198	3,413,771	4,310,135	3,833,773	4,108,878
TOTAL HARVEST	14,786,521	18,713,275	20,684,000	19,597,987	20,839,172
VALUE (IN $000s)	$35,037	$47,151	$60,965	$60,413	$67,997

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

In year ending March 31, 1987

Note: Figures for 1988 not available at time of publication.

Tree Species	Volume in Cubic Metres	Bonus $	Crown Dues $	Stumpage Value $
SOFTWOODS				
White Pine	738,685.557	672,947.83	2,584,887.82	3,257,835.65
Red Pine	252,322.177	201,129.34	877,282.43	1,078,411.77
Jack Pine	5,753,026.755	511,787.57	21,453,124.50	21,964,912.07
White Spruce	105,444.608	725.81	197,907.87	198,633.68
Black Spruce	476,974.444	18,552.36	1,928,811.41	1,947,363.77
Spruce, mixed	8,247,779.349	770,060.61	30,700,662.41	31,470,723.02
Hemlock	73,434.974	23,315.86	254,452.35	277,768.21
Balsam	1,047,717.341	65,129.53	2,948,386.86	3,013,516.35
Cedar	22,555.484	5,960.73	54,832.03	60,792.76
Tamarack	4,289.578	309.25	12,886.67	13,195.92
Conifers, mixed	8,064.305	5,409.98	5,982.49	11,392.47
Total Softwoods	16,730,294.546	2,275,328.87	61,019,216.84	63,294,545.71
HARDWOODS				
Maple	382,521.921	357,310.72	832,722.70	1,190,033.42
Yellow Birch	104,685.716	141,877.76	221,486.44	363,364.20
White Birch	271,154.244	94,746.43	211,578.47	306,324.90
Oak	20,242.378	40,631.30	61,387.50	102,018.80
Beech	30,257.939	29,556.99	84,937.20	114,494.19
Ash	2,336.663	5,550.36	7,221.26	12,771.62
Elm	98.474	358.10	108.12	466.22
Basswood	13,311.742	26,061.70	40,075.70	66,137.40
Hickory	5.275	6.65	3.90	10.55
Butternut	20.454	29.64	73.52	103.16
Cherry	2,022.260	3,214.50	7,125.23	10,339.73
Poplar	2,557,054.640	208,027.46	2,028,521.87	2,236,549.33
Hardwoods, mixed	725,165.984	113,204.05	187,079.66	300,283.71
Total Hardwoods	4,108,877.690	1,020,575.66	3,682,321.57	4,702,897.23
TOTAL	20,839,172.236	3,295,904.53	64,701,538.41	67,997,442.94

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

In cubic metres and $000's in years ending March 31

Note: Figures for 1988 not available at time of publication.

Year	Stacked		Cubic	
	Softwood	Hardwood	Softwood	Hardwood
1981	4,380,421	723,064	6,339,098	513,585
1982	3,889,894	558,760	5,070,186	611,389
1983	2,974,245	650,425	4,313,754	525,436
1984	3,192,571	499,699	5,354,306	903,933
1985	3,068,026	648,690	5,220,857	1,396,957
1986	2,758,354	613,599	4,858,816	992,904
1987	2,868,102	572,785	4,799,319	1,381,420

Year	Foot Board Measure			Mass		Total	Stumpage Value
	Grade 1	Grade 2	Grade 3	Softwood	Hardwood		$
1981	90,064	144,986	70,785	6,475,267		18,737,271	43,727
1982	107,244	181,592	81,943	6,719,923		17,513,300	42,453
1983	79,545	131,481	71,228	6,040,406		14,786,521	35,037
1984	104,431	157,403	81,517	8,419,414		18,713,275	47,151
1985	150,831	283,953	200,338	9,714,347		20,684,000	60,965
1986	294,270	91,017	---	8,210,945	1,778,082	19,597,987	60,413
1987	225,833	93,982	---	9,062,874	1,834,857	20,839,172	67,997

TIMBER HARVESTED ON CROWN LANDS BY REGION

Administrative regions of the Ministry of Natural Resources

In cubic metres in years ending March 31

Note: Figures for 1988 not available at time of publication.

Region	1983	1984	1985	1986	1987
Northwestern					
softwoods	2,888,440	3,830,981	3,856,741	3,759,601	3,759,301
hardwoods	76,868	90,337	135,361	137,303	71,517
North Central					
softwoods	4,007,835	4,368,590	4,706,900	4,569,500	4,966,361
hardwoods	847,995	1,133,546	1,533,812	1,485,805	1,394,583
Northern					
softwoods	3,945,635	5,200,631	5,778,030	5,465,850	5,902,245
hardwoods	533,394	781,957	740,893	757,997	706,904
Northeastern					
softwoods	1,093,690	1,517,671	1,613,782	1,571,413	1,716,973
hardwoods	523,773	703,510	949,961	710,428	1,297,561
Algonquin					
softwoods	294,264	363,038	393,113	366,429	350,201
hardwoods	442,689	606,772	847,382	643,844	572,020
Eastern					
softwoods	22,852	18,595	23,928	31,422	35,213
hardwoods	104,479	97,649	101,541	98,396	66,293
Central					
softwoods	4,607	—	1,371	—	—
hardwoods	—	—	1,183	—	—
Southwestern					
softwoods	—	—	—	—	—
hardwoods	—	—	—	—	—
Total softwoods	12,257,322	15,299,504	16,373,865	15,764,214	16,730,294
Total hardwoods	2,529,198	3,413,771	4,310,135	3,833,773	4,108,878
TOTAL HARVEST	14,786,521	18,713,275	20,684,000	19,597,987	20,839,172

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

In year ending March 31, 1987

Note: Figures for 1988 not available at time of publication.

Unit of Measurement Tree Species	Volume in Cubic Metres	Crown Dues $	Stumpage Value $
STACKED, ROUGH			
White Pine	20,148.609	66,010.56	69,405.13
Red Pine	15,999.473	46,172.72	48,102.71
Jack Pine	816,260.179	3,063,786.16	3,125,029.08
Spruce, Mixed	1,195,430.005	4,513,687.40	4,662,527.25
Balsam	203,641.284	546,421.29	566,441.35
Cedar	12,831.827	25,913.52	27,804.33
Tamarack	3,488.673	10,542.22	10,694.79
White Birch	16,386.225	12,405.88	22,674.22
Poplar	416,877.292	316,015.76	347,676.46
SUB-TOTAL	2,701,063.567	8,600,955.58	8,880,355.32
STACKED, PEELED			
Jack Pine	58,559.554	222,257.10	224,834.87
Spruce, Mixed	479,144.408	1,647,768.19	1,660,760.69
Balsam	58,963.945	168,296.50	168,641.58
Poplar	88,879.248	73,813.86	77,454.47
SUB-TOTAL	685,547.155	2,112,135.65	2,131,691.61
CUBIC MEASURE			
White Pine	444,481.386	1,556,528.27	2,013,049.17
Red Pine	116,976.238	405,832.41	546,994.68
Jack Pine	841,959.636	2,998,694.60	3,072,726.54
White Spruce	105,444.608	197,907.87	198,633.68
Black Spruce	476,974.444	1,928,811.41	1,947,363.77
Spruce, Mixed	2,594,030.482	9,379,482.05	9,543,527.29
Hemlock	46,078.351	163,219.46	180,504.92
Balsam	150,227.486	415,263.33	425,866.73
Cedar	9,718.437	28,914.65	32,977.52
Tamarack	800.905	2,344.45	2,501.13
White Birch	53,082.399	41,369.69	66,100.64
Poplar	658,922.090	527,202.31	571,547.45
SUB-TOTAL	5,498,696.462	17,645,570.50	18,601,793.52

Note: Figures for 1988 not available at time of publication.

Unit of Measurement Tree Species	Volume in Cubic Metres	Crown Dues $	Stumpage Value $
BOARD FOOT MEASURE, GRADE 1			
Maple	147,755.132	668,013.07	957,138.69
Yellow Birch	43,474.530	187,297.39	315,678.25
Oak	9,618.600	53,678.85	88,764.69
Beech	15,514.771	74,056.87	97,916.77
Ash	1,048.188	6,293.31	10,315.94
Elm	5.565	63.25	115.61
Basswood	7,201.562	35,448.51	56,765.96
Butternut	18.713	72.64	100.44
Cherry	1,196.109	6,462.87	8,950.88
SUB-TOTAL	225,833.170	1,031,332.76	1,535,747.23
BOARD FOOT MEASURE, GRADE 2			
Maple	55,192.135	37,148.58	62,032.06
Yellow Birch	25,324.254	13,139.24	17,337.59
Oak	3,773.192	2,416.30	4,602.57
Beech	4,709.933	2,897.81	6,096.61
Ash	928.134	744.59	1,509.44
Elm	1.133	0.55	1.21
Basswood	3,652.254	2,693.16	6,253.50
Butternut	1.741	0.88	2.72
Cherry	394.310	378.33	777.39
Hickory	5.275	3.90	10.55
SUB-TOTAL	93,982.361	59,423.34	98,623.64

Note: Figures for 1988 not available at time of publication

Units of Measurement Tree Species	Volume in Cubic Metres	Bonus $	Stumpage Value $
MASS-SCALED WOOD			
White Pine	274,055.562	962,348.99	1,175,381.35
Red Pine	119,346.466	425,227.30	483,314.38
Jack Pine	4,028,991.879	15,163,017.58	15,536,952.52
Spruce	3,978,693.628	15,159,472.91	15,603,552.00
Hemlock	27,356.623	91,232.89	97,263.29
Balsam	634,314.626	1,817,983.94	1,852,144.42
White Birch	194,021.090	152,131.20	211,112.50
Poplar	1,388,075.126	1,108,307.29	1,236,198.79
Maple	179,574.654	127,561.05	170,862.67
Yellow Birch	35,886.932	21,049.81	30,348.36
Oak	6,850.586	5,292.35	8,651.54
Beech	10,033.235	7,982.52	10,480.81
Ash	360.341	183.36	946.24
Elm	91.776	44.32	349.91
Basswood	2,457.926	1,934.03	3,117.94
Cherry	431.841	284.03	611.46
SUB-TOTAL	10,880,542.291	35,044,053.57	36,421,288.18
FUELWOOD, STACKED			
Conifers, Mixed	3,634.377	2,680.91	3,414.00
Hardwoods, Mixed	50,642.260	41,156.14	60,165.27
SUB-TOTAL	54,276.637	43,837.05	63,579.27
FUELWOOD, CUBIC MEASURE			
Jack Pine	7,255.507	5,369.06	5,369.06
Spruce, Mixed	480.800	355.79	355.79
Balsam	570.000	421.80	421.80
Cedar	5.220	3.86	10.91
Conifers	4,314.941	3,228.36	7,892.44
White Birch	7,664.530	5,671.70	6,437.54
Poplar	4,300.881	3,182.65	3,672.16
Hardwoods, Mixed	657,449.779	135,483.39	215,083.14
SUB-TOTAL	682,041.681	153,716.61	239,242.84
FUELWOOD, MASS-SCALED			
Conifers	114.987	73.22	86.03
Hardwoods, Mixed	17,073.922	10,440.13	25,035.30
SUB-TOTAL	17,188.909	10,513.35	25,121.33
GRAND TOTAL	20,839,172.236	64,701,538.41	67,997,442.94

Number of District Cutting Licences/Permits issued and included in the above: 6,558.

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector & Year	Establishments Number	Total Employees Number	Total Salaries & Wages $000s	Fuel and Electricity $000s
1981				
Logging	418	9,003	230,052	30,562
Wood Industries	774	20,970	362,998	43,705
Paper & Allied	342	47,381	1,044,810	324,780
Total	**1,534**	**77,354**	**1,637,860**	**399,047**
Furniture and Fixtures	610	25,856	416,922	15,181
1982				
Logging	418	7,079	193,796	33,320
Wood Industries	794	19,015	334,260	46,144
Paper & Allied	347	43,917	1,078,919	351,385
Total	**1,559**	**70,011**	**1,606,975**	**430,849**
Furniture and Fixtures	644	23,684	398,558	19,285
1983				
Logging	472	7,826	227,797	39,425
Wood Industries	820	19,562	381,158	54,659
Paper & Allied	301	41,001	1,110,513	381,789
Total	**1,593**	**68,389**	**1,719,468**	**475,873**
Furniture and Fixtures	697	23,218	427,289	21,248
1984				
Logging	484	9,515	275,809	44,724
Wood Industries	838	20,840	432,202	61,128
Paper & Allied	311	41,690	1,181,223	408,817
Total	**1,633**	**72,045**	**1,889,234**	**514,669**
Furniture and Fixtures	713	24,050	471,923	21,687
1985				
Logging	518	8,482	260,439	45,803
Wood Industries	851	23,207	507,511	67,132
Paper & Allied	317	40,990	1,245,332	404,954
Total	**1,686**	**72,679**	**2,013,282**	**517,889**
Furniture and Fixtures	714	26,248	564,144	25,193

Note: Figures for 1986 not available from Statistics Canada at time of publication.

Sector & Year	Materials & Supplies $000s	Value of Shipments $000s	Total Value Added $000s
1981			
Logging	381,431	717,927	327,515
Wood Industries	791,939	1,436,082	619,138
Paper and Allied	2,702,821	5,129,829	2,136,084
Total	**3,876,191**	**7,283,838**	**3,082,737**
Furniture and Fixtures	718,103	1,455,964	755,591
1982			
Logging	346,243	678,892	287,982
Wood Industries	678,066	1,256,366	525,522
Paper & Allied	2,596,915	4,841,076	1,939,371
Total	**3,621,224**	**6,776,334**	**2,752,875**
Furniture and Fixtures	646,963	1,347,435	683,402
1983			
Logging	398,704	793,959	355,758
Wood Industries	848,804	1,572,204	698,513
Paper & Allied	2,676,283	5,041,628	2,010,011
Total	**3,923,791**	**7,407,791**	**3,064,282**
Furniture and Fixtures	726,010	1,522,637	785,228
1984			
Logging	514,580	922,640	394,618
Wood Industries	999,172	1,795,703	774,791
Paper & Allied	3,044,817	5,851,884	2,466,296
Total	**4,558,569**	**8,570,227**	**3,635,705**
Furniture and Fixtures	811,176	1,716,607	900,633
1985			
Logging	501,838	949,222	389,669
Wood Industries	1,140,014	2,103,431	912,629
Paper & Allied	3,186,653	6,036,236	2,476,824
Total	**4,828,505**	**9,088,889**	**3,779,122**
Furniture and Fixtures	945,051	2,008,981	1,056,810

Furniture and Fixtures does not include furniture re-upholstery and repair shops.

Figures for the 1986 not available from Statistics Canada at time of publication.

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WILDLIFE BRANCH

HUNTING STATISTICS - Estimates compiled from hunters surveyed by mail.

	RESIDENT			NON-RESIDENT		
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
MOOSE						
1981	66,850	405,500	7,630	3,110	19,400	460
1982	85,630	508,100	10,150	3,060	19,200	550
1983	69,780	537,400	8,640	2,080	13,300	410
1984	77,020	582,900	9,850	2,130	13,700	480
1985	76,130	576,100	9,580	2,640	16,800	610
1986	77,410	595,100	11,110	2,770	18,200	700
DEER						
1981	84,590	469,500	10,610	590	3,000	70
1982	91,750	500,300	11,870	560	2,900	90
1983	99,690	573,400	18,930	510	2,800	80
1984	103,050	590,900	23,870	520	2,800	110
1985	111,830	672,800	26,710	630	3,500	120
1986	120,570	738,700	36,200	770	4,300	160
SMALL GAME						
1978-79	226,693	2,975,400	--	8,724	55,100	--
1979-80	214,550	2,829,600	--	10,520	65,700	--
1980-81	220,020	2,781,300	--	11,170	76,100	--
BEAR						
1981	8,170	58,300	1,370	12,230	81,400	3,700
1983	10,660	90,600	1,720	15,060	101,300	4,820
1984	9,160	80,400	1,300	15,260	102,600	4,970
1985	9,300	86,700	1,440	16,850	111,700	6,370
1986	10,400	94,000	1,750	19,590	129,700	6,950

TOTALS

Year	Hunters	Hunter Days	Harvest
MOOSE			
1981	69,960	424,900	8,090
1982	88,690	527,300	10,700
1983	71,860	550,700	9,050
1984	79,150	596,600	10,340
1985	78,780	592,900	10,190
1986	80,180	613,300	11,810
DEER			
1981	85,180	472,500	10,680
1982	92,310	503,200	11,960
1983	100,200	576,200	19,010
1984	103,570	593,700	23,980
1985	112,460	676,300	26,830
1986	121,340	743,000	36,360
BEAR			
1981	20,400	139,700	5,070
1983	25,720	191,900	6,540
1984	24,420	183,000	6,270
1985	26,150	198,400	7,810
1986	29,990	223,700	8,700

EXPENDITURE BY HUNTERS (excluding Licence Fees)

Estimates compiled from hunters surveyed by mail.

Survey Year	Hunt	Resident	Non-Resident	Total
1981-82	Moose	23,576,000	1,929,000	25,505,000
1982-83	Moose	28,900,000	1,889,000	30,789,000
1983-84	Moose	28,856,000	1,597,000	30,453,000
1984-85	Moose	32,460,000	1,727,000	34,187,000
1985-86	Moose	34,463,000	2,011,000	36,474,000
1986-87	Moose	35,294,000	2,122,000	37,416,000
1981-82	Deer	18,163,000	229,000	18,392,000
1982-83	Deer	20,306,000	240,000	20,546,000
1983-84	Deer	24,038,000	230,000	24,268,000
1984-85	Deer	26,386,000	214,000	26,600,000
1985-86	Deer	31,709,000	274,000	31,983,000
1986-87	Deer	34,257,000	339,000	34,596,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Bear	2,233,000	5,352,000	7,585,000
1983-84	Bear	3,724,000	8,012,000	11,736,000
1984-85	Bear	3,385,000	8,398,000	11,783,000
1985-86	Bear	3,908,000	9,677,000	13,515,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res.	Resident	Non-Res.	Resident	Non-Res.
1982-83	101,712	570	92,393	3,111	13,817	14,639
1983-84	112,318	535	75,650	2,148	15,464	16,109
1984-85	114,729	556	89,492	2,201	13,696	16,160
1985-86	125,049	670	91,319	2,701	14,198	17,739
1986-87	133,557	806	93,308	2,809	15,870	20,569
1987-88	144,531	1,025	98,580	3,443	16,554	19,184

Year	SMALL GAME		TOTAL LICENCES		
	Resident	Non-Res.	Resident	Non-Res.	Total
1982-83	338,279	11,202	546,201	29,522	575,723
1983-84	321,484	10,844	524,916	29,636	554,552
1984-85	306,682	11,332	524,599	30,249	554,848
1985-86	308,478	12,434	526,640	33,542	560,182
1986-87	312,988	13,183	555,723	37,367	593,090
1987-88	326,650	14,160	586,315	37,812	624,127

FURBEARER HARVEST

in years ending June 30

Pelt	1986-87 Average pelt value $	Number of pelts from Sealing Officers' Reports and Fur Dealers' Returns 1984	1985	1986	1987
Arctic Fox	14.58	44	116	213	133
Badger	3.61	7	1	0	2
Beaver	45.67	119,080	133,011	141,637	150,188
Black Bear	43.88	132	81	57	68
Bobcat	157.90	26	15	15	21
Coloured Fox	42.75	19,629	18,362	20,597	14,150
Coyote	32.45	2,718	2,603	2,579	2,696
Fisher	221.50	3,725	3,002	3,473	3,738
Grey Fox	33.25	11	2	6	7
Lynx	562.73	1,707	495	478	508
Marten	89.99	64,545	30,671	56,133	67,199
Mink	47.11	16,183	16,107	20,069	23,167
Muskrat	5.39	450,634	540,943	492,762	539,736
Opossum	.75	89	33	20	41
Otter	48.61	7,576	9,145	8,711	8,577
Polar Bear	560.00	19	23	32	11
Raccoon	23.97	72,844	87,344	75,519	99,665
Red Squirrel	.48	3,229	6,034	4,895	3,731
Skunk	2.92	264	147	81	139
Timber Wolf	43.49	884	1,003	821	647
Weasel	2.10	3,281	3,690	4,677	6,663
Wolverine	131.48	12	9	9	12
TOTAL PELTS		766,639	852,837	832,784	921,099
TOTAL VALUE		13,173,998	13,913,083	14,082,694	15,409,592

Total Royalties collected in 1986-87: $784,572.35

TRAPPER LICENCES, 1986-87

Licence	number	price $	revenue $
Registered	3,128	5.25	16,422.00
Resident	7,089	5.25	37,217.25
Farmer	670	0.00	--
Registered Treaty	3,366	1.00	3,366.00
Landowner	194	5.25	1,018.50
Raccoon Hunters	2,792	5.25	14,658.00
TOTAL	17,239		$72,681.75

HUNTER EDUCATION PROGRAM

Training, which began in 1957, became mandatory for prospective hunters in 1960. Hunting licence examinations consisting of written and practical tests were introduced in 1968. Applicants for an examination who were under 20 years of age were required to complete the prescribed training course before attempting the examination. In 1983, this training requirement was extended to all applicants born after December 31, 1954. Effective January 1, 1987, all applicants regardless of age must complete the hunter training course before applying for their hunting licence examination.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS Non-Fatal	Fatal	Total
1981	1,406	39,625	604,233	33	3	36
1982	1,295	34,430	638,663	38	4	42
1983	1,150	30,216	668,879	20	3	23
1984	1,175	33,117	701,996	34	4	38
1985	1,176	27,241	729,237	36	4	40
1986	1,065	25,318	754,555	29	7	36
1987	1,014	26,210	780,765	35	9	44

PROVINCIAL WILDLIFE AREAS

area	hectares
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3,925
Camden Lake Wildlife Management Area	1,052
Copel and Forest	1,760
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holland Marsh Provincial Wildlife Area	573
Hullett Provincial Wildlife Area	2,794
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5,666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1,457
Nonquon River Wildlife Area	1,133
Point Petre Provincial Wildlife Area	1,276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3,800
Rondeau Provincial Park	4,654
St. Edmunds Provincial Wildlife Area	6,799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

area	hectares
Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Lake St. Lawrence	6,070
Lockhart Ponds	-
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Vansittant Woods	-
Waterford Lakes	290
Willoughby Marsh	227

COMMUNITY WILDLIFE INVOLVEMENT PROGRAM (CWIP)

Provincial Distribution of CWIP Projects for 1987-88
by administrative regions and districts

Southwestern Region	
Aylmer	4
Chatham	1
Owen Sound	16
Simcoe	6
Wingham	6
Total	33

Northeastern Region	
Blind River	1
Espanola	5
North Bay	5
Sault Ste. Marie	0
Sudbury	7
Temagami	0
Wawa	1
Total	19

Central Region	
Cambridge	12
Niagara	4
Lindsay	3
Maple	8
Huronia	6
Total	33

Northern Region	
Chapleau	0
Cochrane	0
Gogama	2
Hearst	1
Kapuskasing	0
Moosonee	1
Kirkland Lake	1
Timmins	2
Total	7

Eastern Region	
Brockville	0
Carleton Place	7
Cornwall	3
Napanee	8
Tweed	10
Total	28

North Central Region	
Atikokan	0
Geraldton	0
Nipigon	0
Terrace Bay	1
Thunder Bay	4
Total	5

Algonquin Region	
Algonquin Park	3
Bancroft	0
Bracebridge	1
Minden	0
Parry Sound	1
Pembroke	6
Total	11

Northwestern Region	
Dryden	1
Fort Frances	0
Ignace	0
Kenora	2
Red Lake	1
Sioux Lookout	2
Total	6

PROVINCIAL TOTAL: 142 CWIP Projects in 1987/88

COMMUNITY WILDLIFE INVOLVEMENT PROGRAM (CWIP)

CWIP Participant Statistics for 1987/88

Participant Group	Number of Projects	Number of Participants	Hours Contributed by Participants
Sportsmens' Clubs	60	1,029	16,980
Naturalists' Clubs	25	1,484	17,326
Individuals	24	110	3,229
School Groups (Students)	10	1,896	7,280
Trapper Organizations	6	76	674
Youth Groups (scouts, guides, and 4-H)	8	290	1,455
Trail Clubs	2	30	370
Church Groups and Community Groups	7	77	674
TOTAL	142	4,992	49,129

Project WILD

1987/88 TEACHER-TRAINING WORKSHOPS BY REGION

Region	No. of Leaders MNR	School Bd.	No. of Workshops	Number of Trained Teachers
Northwestern	6	2	7	133
North Central	15	18	5	126
Northern	25	22	9	142
Northeastern	13	16	7	245
Algonquin*	11	9	11	218
Eastern	7	22	24	823
Central	17	65	37	1,043
Southwestern	13	23	23	656
TOTAL	107	177	123	3,386

* All Algonquin Region workshops held by the Leslie M. Frost Natural Resources Centre in Dorset.

FISHERIES BRANCH

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)
Stocked from Ontario Fish Culture Stations (calendar year)

Species	E/F	1983	1984	1985	1986	1987
Coho Salmon	F	218	131	191	273	400
Chinook Salmon	F	125	662	703	598	514
Rainbow Trout	F	327	266	340	506	781
Atlantic Salmon	F	0	0	0	0	1
Brown Trout	F	134	166	166	305	397
Brook Trout	E	0	302	0	0	10
	F	1,655	1,218	1,250	1,693	2,066
Lake Trout	E	25	80	38	15	229
	F	2,277	3,123	3,118	3,361	4,454
F1 Splake	E	180	0	0	0	0
	F	104	205	286	354	345
L.T. Backcross	E	0	0	0	0	5
	F	856	1,071	1,018	908	997
Aurora Trout	F	21	10	11	27	16
Lake Whitefish	F	15	15	32	98	164
Muskellunge	E	0	0	76	0	0
	F	902	1,290	1,526	1,161	804
Smallmouth Bass	F	0	136	5	24	17
Walleye	E	0	300	800	0	0
	F	156	393	1,336	2,312	891
Total		6,994	9,369	10,896	11,635	12,091

FISH STOCKING by Fish Culture Station 1986-87

Station	Species	# Fish	# Eggs
Cage Culture	Lake Trout	16	0
	L.T. Backcross	178	0
Codrington	Brown Trout	169	0
Chatsworth	Lake Trout	203	0
	F1 Splake	1	0
	L.T. Backcross	574	0
	Lake Whitefish	30	0
Deer Lake	Lake Trout	323	0
	Muskellunge	1,161	0
Dorion	Brook Trout	254	0
	Lake Trout	1,093	0
	F1 Splake	46	0
Hill's Lake	Brook Trout	780	0
	Lake Trout	43	0
	F1 Splake	81	0
Normandale	Rainbow Trout	463	0
	Brown Trout	136	0
North Bay	Brook Trout	304	0
	Lake Trout	339	0
	F1 Splake	27	0
	Aurora Trout	27	0
Pembroke	Brook Trout	148	0
	Lake Trout	55	0
Ringwood	Coho Salmon	277	0
	Chinook Salmon	598	0
Sandfield	Lake Trout	60	0
	F1 Splake	0	0
	L.T. Backcross	156	0
	Smallmouth Bass	24	0
	Walleye	36	0
Skeleton Lake	Brook Trout	87	0
	Lake Trout	47	0
	F1 Splake	149	0
	Walleye	1,268	0
Tarentorus	Brook Trout	91	0
	Lake Trout	663	0
White Lake	Rainbow Trout	38	0
	Brook Trout	28	0
	Lake Trout	589	0
	F1 Splake	51	0
	Lake Whitefish	68	0
	Walleye	1,008	0
Total		11,688,271	0

SALES OF 1987 RESIDENT SPORT FISHING LICENCES

November 1986 - March 1988

Region	# of Seasonal	# of 4-Day	Combined Revenue $(M)
Northern Ontario	212,757	9,631	--
Southern Ontario	744,417	34,624	--
Total	957,174	44,255	9.315

PERCENTAGE OF SEASONAL RESIDENT SPORT FISHING LICENCES SALES BY REGION

Region	Percentage
Northwestern	2.8
North Central	4.0
Northern	3.8
Northeastern	11.6
Total Northern Ontario	22.2
Algonquin	7.9
Eastern	12.8
Central	41.6
Southwestern	15.5
Total Southern Ontario	77.8

ENFORCEMENT STATISTICS 1986-87

(statistics for 1987-88 not available at time of publication)

District or Region	No. of Field Conservation Officers	No. of Deputy Conservation Officers	No. of Contacts by Conservation Officers	No. of F & W Warnings
Algonquin	25.5	60	33,721	1,523
Central	30.5	85	74,887	3,985
Eastern	29.5	31	65,638	2,222
Northern	26.5	34	64,312	1,326
North Central	23	20	35,085	1,388
Northeastern	35	66	53,708	1,421
Northwestern	26	16	52,625	1,216
Southwestern	30.5	100	58,616	2,181
Total	226.5	412	438,592	15,262

District or Region	No. of F & W Charges	No.of Other Charges	Total F & W Charge Fines $	Total Other Charge Fines $	Total Fines $
Algonquin	*886	*757	67,722.00	42,085.00	109,807.00
Central	1,265	461	119,915.00	30,750.00	150,665.00
Eastern	975	544	**59,522.37	29,281.00	88,833.37
Northern	920	52	66,415.98	8,088.73	73,504.71
North Central	688	173	57,256.90	5,961.25	63,218.15
Northeastern	816	5	89,108.19	1,492.00	96,306.19
Northwestern	921	329	71,759.07	20,133.04	91,892.11
Southwestern	870	***2,129	67,613.00	143,497.00	211,110.00
Total	****7,341	****4,450	**599,342.51	281,288.02	885,336.53

* In Algonquin Region -- Park Wardens laid 614 charges, DCO's laid 38 charges and fire personnel laid 38 charges.

** In addition to monetary fines -- convicted persons served 140 days incarceration and performed 90 hours of community service work.

*** 1,961 of this total are charges laid by Park Wardens.

**** Total number of charges: 11,791

PARKS AND RECREATIONAL AREAS BRANCH

PUBLIC USE OF PROVINCIAL PARKS

Year	Interior Campers	Campers	Average Days	Camper Nights	Total Visitors
1983	85,131	*1,354,019	2.7	**3,726,427	***7,647,287
1984	--	1,461,904	2.6	3,764,006	7,337,892
1985	--	1,429,440	2.6	3,718,634	+7,524,003
1986	--	1,289,588	2.8	3,658,493	7,488,170
1987	--	1,497,678	2.6	3,903,590	++8,019,822

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Hikes/Tours	Evening Personal Service	Film Programs
1987	89	48,683	138,485	107,453

School Programs	Children's Programs	Extension Programs	Outdoor Recreation Programs
37,504	40,201	17,333	118,987

INDOOR FACILITIES

Campsite Visitation	Special Events	Visitor Centre	Other
120,472	52,384	325,665	133,393

OUTDOOR FACILITIES			PUBLICATIONS		
Displays/ Exhibits	Interpretive Trails	Other Trails	Priced	Free	Park Tabloids
302,622	585,353	185,095	112,160	1,124,092	604,476

TOTAL VISITOR SERVICES PROGRAM ATTENDANCE: +++2,213,630

Notes for pages 44-45

* Includes interior campers.
** Includes interior camper nights.
*** Includes interior visitors & traffic count visitors for Wasaga Beach Provincial Park.
\+ Includes winter Visitors.
++ Includes visitors from traffic count and permit sales for Wasaga Beach Provincial Park.
+++ Publications not included.

GROWTH OF PROVINCIAL PARKS

Areas in hectares

Year	Camping Parks	Camping Units	Recommended Parks No.	Recommended Parks ha.	Provincial Parks No.	Provincial Parks ha
1983	97	20,526	144	790,132	139	5,476,369
1984	97	20,481	88	759,556	136	5,476,804
1985	97	20,472	55	695,868	220	5,657,287
1986	96	20,362	51	696,072	219	5,659,105
1987	95	20,161	51	696,072	219	5,659,105

219 PROVINCIAL PARKS IN REGULATION IN 1987

PROVINCIAL PARK CLASSIFICATION
R - Recreation NE - Natural Environment NR - Nature Reserve
H - Historical WA - Waterway WI - Wilderness

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION					
RED LAKE					
Opasquia	WI	473,000	--	--	--
Pakwash	R	631	60	1,602	3,204
Woodland Caribou	WI	450,000	--	--	568
KENORA					
Rushing River	R	190	191	20,952	50,284
Sioux Narrows	R	129	71	6,119	11,626
FORT FRANCES					
Agassiz Peatland	NR	2,315	--	--	--
Caliper Lake	R	134	92	5,835	11,087
Cranberry Lake	NR	2,800	--	--	--
Lake of the Woods	NE	12,900	100	3,117	8,416
Sandpoint Island	NE	900	--	--	--
Sauble Islands	NR	1,980	--	--	--
Spruce Islands	NR	970	--	--	--
DRYDEN					
Aaron	R	117	98	3,584	4,659
Blue Lake	R	354	188	17,797	35,594
Butler Lake	NR	3,400	--	--	-- Lola
Lake	NR	6,572	--	--	--
Winnange Lake	NE	4,745	--	--	--
SIOUX LOOKOUT					
Ojibway	R	2,630	50	2,463	3,940
IGNACE					
Bonheur River Kame	NR	800	--	--	--
Sandbar Lake	R	5,083	75	6,146	9,834
Total: 20 Parks		969,650	925	67,615	139,212

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico	WI	475,819	133	53,987	113,373
THUNDER BAY					
Arrow Lake	R	430	--	--	--
Arrowhead Peninsula	NR	815	--	--	--
Castle Creek	NR	1,075	--	--	--
Cavern Lake	NR	189	--	--	--
Devon Road Mesa	NR	60	--	--	--
Divide Ridge	NR	235	--	--	--
Edward Island	NR	600	--	--	--
Fraleigh Lake	NR	825	--	--	--
Kakabeka Falls	NE	420	166	22,586	31,621
Kashabovie	NE	2,055	--	--	--
Le Pate	NR	250	--	--	--
Little Greenwater Lake	NR	244	--	--	--
Matavin River	NR	2,615	--	--	--
Middle Falls	NE	907	25	1,663	1,829
Ouimet Canyon	NR	777	--	--	--
Porphyry Island	NR	107	--	--	--
Sibley	NE	24,435	200	10,542	23,193
Silver Falls	NE	3,261	--	--	--
Thompson Island	NR	145	--	--	--
NIPIGON					
Albert Lake Mesa	NR	130	--	--	--
Kabitotikwia River	NR	1,965	--	--	--
Kama Hills	NR	1	--	--	--
Lake Nipigon	NE	1,458	60	3,046	4,569
Livingstone Point	NR	1,800	--	--	--
Puff Island	NR	9	--	--	--
Sedgman Lake	NR	5,710	--	--	--
Shesheeb Bay	NR	275	--	--	--
Wabakimi	WI	155,000	--	--	--
West Bay	NR	1,120	--	--	--
GERALDTON					
Klotz Lake	R	119	30	762	990
MacLeod	R	74	85	3,176	9,847
Winisk River	WA	173,530	--	--	--
TERRACE BAY					
Craig's Pit	NR	530	--	--	--
Gravel River	NR	763	--	--	--
Neys	NE	3,445	144	16,196	22,674
Prairie River Mouth	NR	380	--	--	--
Rainbow Falls	R	575	259	11,432	14,861
Red Sucker Point	NR	360	--	--	--
Schreiber Channel	NR	13	--	--	--
Slate Islands	NE	6,570	--	--	--
Total: 41 Parks		869,091	1,102	123,390	222,957

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHERN REGION					
HEARST					
Fushimi Lake	R	5,294	46	1,608	5,789
Nagagamisis	NE	8,131	165	3,083	12,025
Nagagami Lake	NR	1,650	--	--	--
MOOSONEE					
Polar Bear	WI	2,408,700	--	--	--
Tidewater	NE	980	30	1,169	1,169
KAPUSKASING					
Adam Creek	NR	50	--	--	--
Rene Brunelle	R	2,964	107	3,420	9,918
COCHRANE					
Abitibi de Troyes	NE	11,068	--	--	--
Coral Rapids	NR	12	--	--	--
Greenwater	NE	5,350	100	3,778	8,689
Kesagami	WI	55,977	--	--	--
Little Abitibi	WA	20,000	--	--	--
North Driftwood River	NR	3	--	--	--
Sextant Rapids	NR	4	--	--	--
Shallow River	NR	2	--	--	--
Williams Island	NR	8	--	--	--
TIMMINS					
Frederick House Lake	NR	13	--	--	--
Kettle Lakes	R	1,261	165	6,325	20,871
KIRKLAND LAKE					
Esker Lakes	NE	3,237	136	4,953	15,354
Kap-Kig-Iwan	NE	292	64	2,025	3,443
Larder River	WA	2,500	--	--	--
Pushkin Hills	NR	5	--	--	--
Thackeray	NR	116	--	--	--
CHAPLEAU					
Chapleau-Nemegosenda River	WA	8,165	--	--	--
Five Mile Lake	R	456	--	--	--
Ivanhoe Lake	NE	1,589	143	5,588	14,528
Missinaibi Lake	NE	44,061	36	2,984	11,937
The Shoals	NE	10,644	46	2,600	5,720
Wakami Lake	R	8,806	65	4,453	19,149
Total: 29 Parks		2,601,338	1,103	41,986	128,592

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHEASTERN REGION					
WAWA					
Lake Superior	NE	155,659	282	26,337	36,872
Michipicoten	H	289	--	--	--
Michipicoten Island	NE	36,740	--	--	--
Obatanga	NE	9,409	132	7,244	11,591
Potholes	NR	247	--	--	--
White Lake	R	1,726	187	17,063	27,301
SAULT STE. MARIE					
Batchawana	R	169	--	--	--
Montreal River	NR	44	--	--	--
Pancake Bay	R	490	338	26,938	45,795
BLIND RIVER					
Aubrey Falls	NE	4,860	--	--	--
Mississagi	NE	2,883	90	2,771	8,037
Mississagi Delta	NR	2,395	--	--	--
Mississagi River	WA	19,814	--	--	--
ESPANOLA					
Chutes	R	108	134	16,133	22,586
La Cloche	NE	7,448	--	--	--
SUDBURY					
Fairbank	R	105	160	5,663	16,990
Halfway Lake	NE	4,730	215	16,429	50,931
Killarney	WI	48,500	122	17,740	47,898
Mashkinonje	R	940	--	--	--
Wanapitei	NE	2,700	--	--	--
Windy Lake	R	118	83	6,187	17,943
TEMAGAMI					
Finlayson Point	R	37	114	5,447	14,706
Lady Evelyn Smoothwater	WI	72,400	--	--	--
Makobe-Grays River	WA	1,427	--	--	--
W.J.B. Greenwood	R	465	--	--	--
NORTH BAY					
Antoine	R	12	--	--	--
Marten River	R	400	216	5,464	14,754
Mattawa River	WA	3,258	--	--	--
Restoule	NE	1,200	278	6,244	27,475
Samuel de Champlain	NE	2,550	216	8,713	20,910
South Bay	R	1,525	--	--	--
Total: 31 Parks		382,648	2,567	168,373	363,789

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	NE	2,554	520	18,006	54,019
Killbear	NE	1,756	883	41,049	192,932
Limestone Islands	NR	450	--	--	--
Oastler Lake	R	32	145	8,502	25,505
O'Donnell Point	NR	875	--	--	--
Sturgeon Bay	R	14	82	4,566	13,698
BRACEBRIDGE					
Arrowhead	NE	963	388	31,673	76,014
Bigwind Lake	NE	1,970	--	--	--
Dividing Lake	NR	350	--	--	--
Hardy Lake	NE	684	--	--	--
J. Albert Bauer	NE	163	--	--	--
Mikisew	R	131	265	14,043	32,299
Oxtongue R.-Ragged Falls	WA	382	--	--	--
BANCROFT					
Lake St. Peter	R	25	62	4,970	9,940
Opeongo River	WA	955	--	--	--
Petroglyphs	H	1,555	--	--	--
Silent Lake	NE	1,450	167	12,984	29,864
ALGONQUIN PARK					
Algonquin	NE	765,345	1,385	158,992	445,177
PEMBROKE					
Bonnechere	R	113	113	4,836	17,409
Carson Lake	R	13	43	2,192	3,507
Driftwood	R	265	79	4,971	8,947
Foy Property	R	148	--	--	--
Matawatchan	NR	65	--	--	--
Westmeath	NE	610	--	--	--
Total: 24 Parks		780,868	4,132	306,784	909,311

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
EASTERN REGION					
CARLETON PLACE					
Carillon	R	1,417	416	16,148	37,141
Fitzroy	R	185	245	16,501	33,002
Murphys Point	NE	1,240	182	10,382	25,954
Rideau River	R	98	186	15,628	28,131
Silver Lake	R	43	148	9,558	20,071
Sharbot Lake	R	69	195	11,298	30,505
NAPANEE					
Bon Echo	NE	6,644	530	32,693	111,157
Charleston Lake	NE	902	250	27,923	64,224
Ferris	R	198	162	2,935	5,577
Frontenac	NE	5,130	45	--	5,259
Lake on the Mountain	R	104	--	--	--
North Beach	R	89	--	--	--
Presqu'ile	NE	937	394	36,845	103,167
Sandbanks	NE	1,509	411	38,662	127,585
Stoco Fen	NR	102	--	--	--
Timber Island	NR	44	--	--	--
Total: 16 Parks		18,711	3,164	218,573	591,773

Region, District Provincial Park	Class	Area in Hectare	Developed Campsites	Campers	Camper Nights
CENTRAL REGION					
LINDSAY					
Balsam Lake	R	449	489	33,866	94,824
Darlington	R	209	348	30,418	60,835
Emily	R	83	299	20,810	60,348
Mark S. Burnham	R	39	--	--	--
Peter's Woods	NR	34	--	--	--
Quackenbush	H	40	--	--	--
Serpent Mounds	H	135	113	9,862	30,572
Wolf Island	NE	222	--	--	--
HURONIA					
Awenda	NE	2,917	200	16,706	43,436
Bass Lake	R	39	92	14,106	32,443
Boyne Valley	R	434	--	--	--
Devil's Glen	R	6	45	2,938	4,407
Earl Rowe	R	312	555	25,939	64,847
Gibson River	NR	168	--	--	--
Mara	R	45	106	6,637	20,575
McRae Point	R	138	205	14,169	42,508
Mono Cliffs	NE	631	--	--	--
Six Mile Lake	R	94	190	18,788	46,971
Springwater	R	47	--	--	--
Wasaga Beach	R	1,545	--	--	--
Waubaushene Beaches	NR	34	--	--	--
MAPLE					
Duclos Point	NR	111	--	--	--
Forks of the Credit	NE	261	--	--	--
Sibbald Point	R	226	650	48,137	134,784
CAMBRIDGE					
Bronte Creek	R	640	--	--	--
NIAGARA					
Rock Point	R	187	129	12,589	30,214
Short Hills	NE	661	--	--	--
Total: 27 Parks		9,707	3,421	254,965	666,764

Region, District Provincial Park	Class	Area in Hectares	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION					
SIMCOE					
Long Point	R	141	268	19,558	70,410
Selkirk	R	73	145	3,469	11,795
Turkey Point	R	311	195	11,393	28,482
AYLMER					
John E. Pearce	NE	68	--	--	--
Port Bruce	R	5	--	--	--
Port Burwell	R	227	231	17,068	56,323
Trillium Woods	NR	10	--	--	--
CHATHAM					
East Sister Island	NR	53	--	--	--
Fish Point	NR	110	--	--	--
Lighthouse Point	NR	96	--	--	--
Ojibway Prairie	NR	65	--	--	--
Peche Island	R	153	--	--	--
Rondeau	NE	3,254	226	22,572	67,717
Wheatley	R	241	210	14,854	35,650
WINGHAM					
Ipperwash	R	56	266	17,766	76,393
Pinery	NE	2,533	1,080	104,504	282,160
Point Farms	R	308	200	16,106	41,875
OWEN SOUND					
Bayview Escarpment	NR	439	--	--	--
Cabot Head	NR	4,514	--	--	--
Craigleith	R	66	172	19,567	41,091
Cyprus Lake	NE	669	242	33,084	66,167
Duncan Crevice Caves	NR	161	--	--	--
Fathom Five	NE	9,976	--	--	--
Hope Bay Forest	NR	353	--	--	--
Inverhuron	R	289	--	--	--
Lion's Head	NR	526	--	--	--
Little Cove	NR	16	--	--	--
MacGregor Point	NE	1,204	360	21,860	63,394
Pretty River Valley	NE	808	--	--	--
Sauble Falls	R	20	152	14,191	39,735
Smokey Head/ White Bluff	NR	16	--	--	--
Total: 31 Parks		27,092	3,747	315,992	881,192
PROVINCIAL TOTAL: 219 Parks		5,659,105	20,161	1,497,678	3,903,590

** 51 RECOMMENDED PROVINCIAL PARKS - 1987

Region, District Recommended Provincial Parks	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Pakwash Addition	2,070
Trout Lake	7,850
SIOUX LOOKOUT	
Albany River*	65,360
Fawn River	4,700
Minnitaki Kames	4,340
Otoskwin - Attawapiskat River*	3,400
Pipestone River North	53,250
Pipestone River South	25,720
Severn River	93,700
Windigo Point	380
IGNACE	
Brightsands River*	22,800
Turtle River*	21,400
DRYDEN	
Gold Rock	710
Total: 13 Parks	305,680

Region, District Recommended Provincial Parks	Area in hectares
NORTH CENTRAL REGION	
NIPIGON	
Pantagruel Creek	2,200
Windigo Bay	8,300
THUNDER BAY	
Brightsands River*	5,036
Kaiashk	230
Kopka River	11,000
La Verendrye River	4,390
TERRACE BAY	
Steel River	9,570
GERALDTON	
Albany River*	62,723
Little Current River	9,830
Otoskwin-Attawapiskat River*	69,542
Turtle River*	20,000
Total: 11 Parks	202,821

Region, District Recommended Provincial Parks	Area in Hectares
NORTHERN REGION	
CHAPLEAU	
Biscotasing	1,150
Missinaibi	86,450
TIMMINS	
Dana-Jowsey	2,550
GOGAMA	
La Motte Lake	510
Total: 4 Parks	90,660
NORTHEASTERN REGION	
BLIND RIVER	
Mississagi Extension	1,840
SUDBURY	
French River	43,800
Sturgeon River	2,240
NORTH BAY	
Great Manitou Island	80
ESPANOLA	
Misery Bay	697
Total: 5 Parks	48,657

Region, District Recommended Provincial Parks	Area in Hectares
ALGONQUIN REGION	
PARRY SOUND	
Blackstone Harbour	12,250
Round Lake	4,620
BRACEBRIDGE	
Chetwynd	520
BANCROFT	
Egan Chutes	320
Kawartha Highlands	1,880
Upper Madawaska River	750
PEMBROKE	
Bell Bay	1,630
Bonnechere River	570
Centennial Lake	3,830
Lower Madawaska River	1,770
MacKenzie Lake Addition	1,530
Ottawa River	450
MINDEN	
MacRae Addition	6,354
Total: 13 Parks	36,474

Region, District Recommended Provincial Parks	Area in Hectares
EASTERN REGION	
BROCKVILLE	
James Auld	3,810
Total: 1 Park	3,810
CENTRAL REGION	
LINDSAY	
Indian Point	860
HURONIA	
Lavender Falls	390
Scott's Falls	410
NIAGARA	
James N. Allan	280
Total: 4 Parks	1,940
SOUTHWESTERN REGION	
AYLMER	
Komoka	500
OWEN SOUND	
Black Creek	770
Ira Lake	460
Johnston Harbour/Pine Tree Point	4,300
Total: 4 Parks	6,030
TOTAL: 51 Recommended Parks	696,072

* Park boundary crosses two regions
** Recommended parks will be phased into the Provincial Parks system in the future.

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Director..... Maurice Lewis

LAND MANAGEMENT BRANCH

PUBLIC LANDS in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1983	1,093	1,517	114	208	96	472
1984	1,324	8,674	110	365	90	106
1985	1,591	1,788	100	189	101	92
1986	1,030	5,363	74	68	84	550
1987	826	917	96	186	51	28
1988	688	1,265	175	102	54	198

LANDS ACQUIRED BY CROWN in years ending March 31

Areas in hectares

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased or Otherwise Acquired	Forfeitures
1983	661	--	1,402	4,047
1984	482	1	520	2,832
1985	757	--	711	4,047
1986	440	130	734	497
1987	407	--	--	1,295
1988	497	--	--	1,056

USE OF ACQUIRED LANDS in years ending March 31

Areas in hectares

	Provincial Parks	Lands General	Sports Fisheries	Wildlife Mgmt.	Timber Mgmt.	Total	Interim Property Mgmt.
1983	261	56	146	213	726	1,402	25,113
1984	420	2	--	--	98	520	20,280
1985	504	79	4	101	23	711	13,687
1986	151	243	1	73	266	734	14,421
1987	562	74	--	542	388	1,566	--

1987/88 LAND MANAGEMENT REVENUES RECEIVED

Water Power Royalties	$88,256,155
Licence of Occupation/Lease Annual Fees	$2,084,579
Land Use Permit Fees - I.P.M.	$31,779
Land Use Permit Fees - General	$893,423
Miscellaneous Rentals	$26,182
Sale of Crown Land	$1,595,059
Land Sales - Miscellaneous Fees	$24,108
Quarry Permit Royalties	$24,914
Licence to Take Sand - BPA	$155

ONTARIO FUEL PRODUCTION IN 1986, 1987

Fuels	Unit	1986 Quantity	1986 Value $	1987 Quantity	1987 Value $
Natural Gas	000cu.m.	532,435	68,774,630	511,146	60,647,472
Petroleum	cu.m.	135,816	17,343,707	135,531	20,703,715
TOTAL VALUE			86,118,337		81,351,187

PRODUCTION OF AGGREGATE RESOURCES BY MNR REGION

Regional figures include production from Pits and Quarries Control Act licences and wayside permits, and quarry permits on Crown land.

	1985 (Tonnes)	1986 (Tonnes)
Algonquin Region	202,685	340,338
Central Region	65,207,807	83,284,596
Eastern Region	20,066,958	22,009,399
North Central Region	2,506,615	1,491,474
Northern Region	2,357,577	2,514,087
Northeastern Region	6,583,725	6,382,479
Northwestern Region	2,938,252	4,408,410
Southwestern Region	22,226,388	25,270,419
Estimated Production From All Other Sources	18,000,000	19,300,000
Ontario Total	140,000,000	165,000,000
Estimated Value	$596,400,000	$703,000,000

AGGREGATE RESOURCES MANAGEMENT

Pits and Quarries Control Act

Year	Number of Licences	Licenced Area ha	Amount Spent on Rehabili-tation $	Rehabili-tation Security Deposited by Licencees $	Number of Wayside Permits	Revenue from Licence and Permit Fees $
1986	2,627	83,577	7,062,871	2,407,106	214	178,000

CROWN LAND QUARRY PERMITS (Mining Act Part VII)

Year	Number of Permits	Number of Ministry of Transportation Crown Pits	Revenue from Permit Fees and Royalties $	Number of Crown Pits Rehabilitated
1986	1,485	385	782,259	15

BEACH PROTECTION ACT

Year	Number of Licences	Revenue from Licence Fees and Royalties $
1986	20	27,200

PRODUCTION OF STRUCTURAL MATERIALS

	1985		1986	
	Volume (Tonnes)	Value	Volume (Tonnes)	Value
Cement	4,044,000	265,048,000	4,843,000	329,021,000
Lime	1,652,000	109,976,000	1,591,000	96,341,000
Clay Products	N/A	86,564,000	N/A	108,067,000

N.B. Statistics obtained from Ontario Mineral Score 1987, Ministry of Northern Development and Mines.

The Pits and Quarries Control Act applies to aggregate operations on private land in designated areas (most of southern Ontario, the Region of Sudbury, and Sault Ste. Marie vicinity). Licensees are required to perform rehabilitation of the extracted site. Each licensee pays 8 cents per tonne extracted into a rehabilitation security fund, to a maximum of $6,000 per disturbed hectare.

Quarry Permits, under Part VII of the Mining Act, are issued for aggregate operations on Crown land throughout Ontario. Operators must obtain a permit and pay royalty on all material removed for commercial purposes.

Beach Protection Act licences are required for remove aggregate from the bed, bank or beach of any river or lake in Ontario. Royalty is paid on material taken from Crown land.

1987/88 MNR ROADS PROGRAM

Region	kms Con./Recon.	Bridges Con./Recon.	Expenditures ($000s)	kms Maintained	Expenditures ($000s)
NORTHERN ONTARIO					
Northwestern	2.0	--	275.0	182.1	441.5
North Central	49.5	2	1,158.4	705.2	465.0
Northern	20.0	--	314.8	443.3	545.6
Northeastern	29.8	5	1,079.7	841.8	294.1
Sub Total	101.3	7	2,827.9	2,172.4	1,746.2
SOUTHERN ONTARIO					
Algonquin	--	--	--	698.5	269.6
Eastern	--	--	37.2*	32.0	119.7
Central	--	--	--	97.9	60.5
Southwestern	--	--	--	--	--
Sub Total	--	--	37.2	828.4	449.8
TOTAL	101.3	11	2,865.1	3,000.8	2,196.0

*Ground Survey carried out.

1987/88 NORTHERN ONTARIO RESOURCES
TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR portion only)

REGION	kms Con./ Recon.	Bridges Con./ Recon.	Expendi-tures ($000s)	kms Main-tained	Expendi-tures ($000s)	kms Winter Road	Expendi-tures ($000s)
Northwestern	12.2	1	1,137.6	78.0	49.9	231.0	469.9
North Central	--	1	47.5	--	--	--	--
Northern	11.4	2	828.3	33.0	12.0	300.0	133.2
Northeastern	6.0	--	110.0	12.5	15.0	--	--
TOTAL	29.6	4	2,123.4	123.5	76.9	531.0	603.1

1987/88 NORTHERN ONTARIO RESOURCES TRANSPORTATION
COMMITTEE - INDIRECT PROGRAM (MNR portion only)

REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures ($000s)
Northwestern	27.1	--	465.3
North Central	27.8	1	656.6
Northern	7.8	2	373.9
Northeastern	25.1	2	426.2
Algonquin	4.1	--	12.2
TOTAL	91.9	5	1,934.2

TOTAL N.O.R.T.C. EXPENDITURE - $4,747.6 (includes $10.0 for snowmobile trails)

1987/88 COFRDA ROADS PROGRAM

CROWN

REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures ($000s)
NORTHERN ONTARIO			
Northwestern	57.9	3	1,687.1
North Central	14.3	--	1,337.3
Northern	--	*	390.5
Northeastern	4.5	--	157.1
Sub Total	76.7	3	3,572.0

*Partial construction of one bridge

SOUTHERN ONTARIO			
Algonquin	36.0	--	909.8
Eastern	18.3	1	257.5
Central	--	--	--
Southwestern	--	--	--
Sub Total	54.3	1	1,167.3

COMPANY

REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures ($000s)
NORTHERN ONTARIO			
Northwestern	--	--	--
North Central	4.8	--	51.2
Northern	9.2	--	89.6
Northeastern	11.7	--	176.3
Sub Total	25.7	--	317.1
SOUTHERN ONTARIO			
Algonquin	24.5	1	130.3
Eastern	--	--	--
Central	--	--	--
Southwestern	--	--	--
Sub Total	24.5	1	130.3
CROWN & COMPANY TOTAL	181.2	5	5,186.7

1987/88 FOREST MANAGEMENT AGREEMENT PROGRAM*

REGION	kms Con./Recon.	Expenditures ($000s)	kms Maintained	Expenditures ($000s)
Northwestern	226.3	7,458.7	766.8	372.4
North Central	296.2	6,141.8	915.9	445.7
Northern	650.6	17,770.7	1,181.6	626.1
Northeastern	245.2	5,757.7	578.0	289.9
TOTAL	1,418.3	37,128.9	3,442.3	1,734.1

* The FMA Program is funded in accordance with agreements between MNR and forest companies.

1987/88 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTURCTION & MAINTENANCE

Crown	MNR Roads Program	NORTC Program	COFRDA Program	FMA Program	Totals
Road Con./ Recon. (kms)	101.3 (11 Br.)	29.6 (4 Br.)	131.0 (4 Br.)	-- --	261.9 (19 Br.)
Expenditures ($000s)	2,865.1	2,123.4	4,739.3	--	9,727.8
Road Maintained (kms)	3,000.8	123.5	--	--	3,124.3
Expenditures ($000s)	2,196.0	76.9	--	--	2,272.9
Winter Roads Maintained (km)	--	531.0	--	--	531.0
Expenditures ($000s)	--	603.1	--	--	603.1

ROADS & BRIDGES CONSTRUCTED & MAINTAINED BY COMPANIES UNDER AGREEMENT

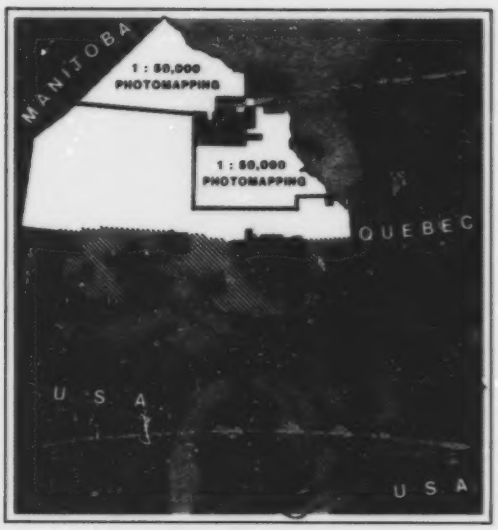
Company	NORTC Program	COFRDA Program	FMA Program	Totals
Road Con./ Recon. (kms)	91.9 (5 Br.)	50.2 (1 Br.)	1,418.3	1,560.4 (6 Br.)
Expenditures ($000s)	1,934.2	447.4	37,128.9	39,510.5
Road Maintained (kms)	--	--	3,442.3	3,442.3
Expenditures ($000s)	--	--	1,734.1	1,734.1

SURVEYS, MAPPING AND REMOTE SENSING BRANCH

SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km. Resurveyed
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
1983-84	307.50
1984-85	374.10
1985-86	222.60
1986-87	274.60
1987-88	206.50
Total	10,504.10



GEOGRAPHICAL INFORMATION SERVICES

ONTARIO BASIC MAPPING

1:20 000 , 1:10 000 scales

Completed.

In progress.

To be mapped.

1:2 000 scale

173 Municipalities completed
14 Municipalities in progress

SURVEYING SERVICES

Area of original township surveys.

Township boundaries resurveyed / restored.

10366 kms completed.

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1979-80	317
1980-81	323
1981-82	641
1982-83	791
1983-84	831
1984-85	501
1985-86	448
1986-87	620
1987-88	956

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585
1983-84	2,119
1984-85	1,618
1985-86	2,030
1986-87	1,936
1987-88	1,732

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
1983-84	11,000
1984-85	3,000
1985-86	3,500
1986-87	2,300
1987-88	1,480
Total	44,280

PROVINCIAL VERTICAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1986-87	1,700
1987-88	1,500

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville
1983-84	Lindsay & Conestoga
1985-86	Thunder Bay
1986-87	Barrie
1987-88	—

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

GRANTS TO CONSERVATION AUTHORITIES UNDER THE CONSERVATION AUTHORITIES ACT

In years ending March 31

Year	Administration $	Water and related Land Mgmt $	Conservation and Recreation Land Mgmt $	Lake Ontario Waterfront $	Total $
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231
1984	7,098,874	26,852,944	3,751,372	--	37,703,190
1985	7,483,719	25,023,841	4,223,991	--	36,731,551
1986	7,824,046	24,695,257	4,380,850	--	36,900,153
1987	8,284,039	24,576,681	9,562,119	--	42,422,839

Sources of Funding (1986):

Total Provincial Government Grants	49,168,589
Federal Government Grants	2,397,496
Total Municipal Levies	33,311,669
Authority Generated Revenues	23,595,978
TOTAL	108,473,732

GENERAL INFORMATION

Number of Conservation Authorities established in Ontario		38
Number of square kilometres within the jurisdiction of Conservation Authorities		106,404
Municipalities participating in one or more Conservation Authorities	Regional	11
	Local	497
Members appointed to Conservation Authorities	Elected	518
	Non-elected	417
Staff Positions	Permanent	925
	Casual	2,155
	Special Employment	1,508

1986 RECREATIONAL PROGRAMS:	
Gross Revenues from Recreational Programs	9,032,280.13
Operating Expenses re: Recreational Programs	11,884,504.98
Net Cost of Recreational Programs	(2,852,224.85)
PUBLIC RECREATIONAL USE OF CONSERVATION AREAS, 1986	
Group Camping Nights	78,617
Family Camping Nights	1,401,502
Day Use	4,073,167
CONSERVATION SERVICES PROGRAM 1986	
Number of Landowners provided with direct technical assistance	
Public Landowners	218
Private Landowners	3,589
TOTAL	3,807
Number of trees and shrubs planted	3,099,497
FLOOD CONTROL MEASURES IMPLEMENTED, 1986	
Number of metres of stream channel constructed	5,272
Number of metres of watercourses dyked	5,240
EROSION CONTROL MEASURES IMPLEMENTED	
Number of metres of erosion control measures constructed	9,235
FLOOD PLAIN MAPPING AND FILL LINE MAPPING COMPLETED	
km of watercourses mapped for both flood plain and fill line delineations	287
km of watercourses mapped for flood plain delineation only	188
km of watercourses mapped for fill line delineation only	113

CURRENT, FEE SIMPLE LAND OWNERSHIP BY CONSERVATION AUTHORITIES TO 1986 (Hectares)

Flood Plains	25,670.32
Shorelines	3,129.21
Wetlands	16,281.53
Agreement Forests	38,218.86
Non-agreement Forests	13,141.88
Wildlife Areas	7,902.61
Recreation Lands	20,078.36
Other	7,167.58
TOTAL	131,590.35

MUNICIPAL PLAN INPUT AND REVIEW 1986

No. of documents reviewed:	
Official Plans	1,527
Zoning Plans	8,349
Subdivisions	1,262
Minor Variances/Consents	18,380
Development Control	1,922
Property Clearances	20,947

FILL AND CONSTUCTION REGULATION ENFORCEMENT 1986

No. of permits granted	3,650
No. of permits refused	167
No. of violation notices issued	245
No. of appeals to Ontario Mining and Lands Commissions	16

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ont. P6A 5L8
Telephone: (705) 942-1800
Telex 067-77166 (Aviation), 067-77134 (Fire Management)

Director..... Lou Lingenfelter

FOREST FIRE RECORD

Areas in hectares

Year	Damage $	Private Property Damage $	Area Burned Over			Number of Fires	Area per Fire
			Crown ha	Private ha	Total ha		
1917	-	-	-	-	155,466	1,110	140
1918	-	-	-	-	12,210	965	12
1919	-	-	-	-	373,186	1,780	210
1920	-	-	-	-	145,222	1,287	113
1921	-	-	-	-	303,326	1,269	239
1922	-	-	-	-	140,099	1,021	151
1923	-	-	-	-	857,995	1,343	639
1924	-	-	-	-	59,091	851	69
1925	-	-	-	-	76,705	1,149	67
1926	-	-	26,664	9,100	35,764	1,110	32
1927	-	-	9,216	5,248	14,464	924	16
1928	-	-	39,026	1,598	40,624	536	76
1929	-	-	246,353	6,836	253,189	1,550	163
1930	-	-	144,688	143,371	288,059	1,402	206
1931	-	-	42,843	13,120	55,963	1,851	30
1932	-	-	253,558	21,232	274,790	2,073	133
1933	-	-	131,537	10,086	141,623	1,919	74
1934	-	-	64,891	15,493	80,384	1,568	51
1935	-	-	74,130	27,309	101,439	1,309	77
1936	-	-	466,957	44,741	511,698	2,264	226
1937	-	-	81,701	9,251	90,952	1,453	63
1938	-	-	38,918	17,028	55,946	1,292	43
1939	-	-	10,558	1,218	11,776	961	12
1940	-	-	40,869	8,346	49,215	1,014	49
1941	-	-	109,991	159,751	269,742	1,265	213
1942	-	-	31,448	14,571	46,019	1,224	38
1943	-	-	13,543	7,831	21,374	624	34
1944	-	-	29,635	38,713	68,348	1,137	60
1945	-	-	7,283	12,348	19,631	966	20
1946	-	-	18,072	12,996	31,067	1,739	18
1947	-	-	15,416	18,591	34,007	1,393	24
1948	-	-	345,917	65,806	411,723	2,036	202
1949	-	-	16,427	7,880	24,307	1,834	13
1950	55,148	103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,783	23,799	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90

Year	Damage $	Private Property Damage $	Area Burned Over			Number of Fires	Area per Fire
			Crown ha	Private ha	Total ha		
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,443	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	--	--	22,727	1,239	18
1971	462,064	75,875	--	--	41,973	1,790	23
1972	1,081,876	47,446	--	--	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,486	35,819	560,305	1,779	315
1981	9,171,418	60,906	173,473	5,994	179,467	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3
1983	15,230,649	352,210	442,163	1,499	443,662	2,244	198
1984	787,487	652,985	118,853	1,567	120,420	1,240	97
1985	69,552	319,329	682	325	1,007	887	1
1986	20,331,092	525,234	143,692	1,869	145,561	1,088	134
1987	1,883,921	419,209	66,248	9,334	75,582	1,923	39

1987 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	56	30.0	0.5
Fort Frances	81	8,704.1	107.5
Ignace	35	3,474.6	99.3
Kenora	119	60.8	0.5
Red Lake	98	8,270.8	84.4
Sioux Lookout	115	34,566.7	300.6
Atikokan	75	311.9	4.2
Geraldton	45	3,896.5	86.6
Nipigon	61	110.4	1.8
Terrace Bay	21	61.7	2.9
Thunder Bay	160	2,877.0	18.0
Chapleau	44	8,678.4	197.2
Cochrane	20	423.2	21.2
Gogama	29	486.4	16.8
Hearst	15	1,278.9	85.3
Kapuskasing	23	297.4	12.9
Kirkland Lake	32	147.6	4.6
Moosonee	17	1,147.5	67.5
Timmins	11	6.7	0.6
Blind River	29	49.9	1.7
Espanola	31	14.0	0.5
North Bay	85	55.7	0.7
Sault Ste. Marie	18	9.3	0.5
Sudbury	164	166.6	1.0
Temagami	42	54.2	1.3
Wawa	32	78.0	2.4
Algonquin Park	61	17.6	0.3
Bancroft	32	10.2	0.3
Bracebridge	56	43.1	0.8
Minden	50	66.2	1.3
Parry Sound	74	25.7	0.3
Pembroke	63	49.1	0.8
Carleton Place	13	25.8	2.0
Tweed	46	35.1	0.8
Huronia	22	6.9	0.3
Lindsay	9	18.6	2.1
Owen Sound	39	25.1	0.6
TOTAL	1,923	75,581.7	39.3

1987 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
March	26	116.1	4.5
April	359	3,741.7	10.4
May	428	21,818.2	51.0
June	350	45,934.3	131.2
July	321	560.0	1.7
August	259	964.1	3.7
September	144	2,412.0	16.8
October	32	31.7	1.0
November	4	3.6	0.9
December	--	--	--
TOTAL	1,923	75,581.7	39.3

DETECTION OF FOREST FIRES

Agencies	1983	1984	1985	1986	1987
Ministry Aircraft *	584	163	112	139	350
Other	11	6	6	8	10
Total Organized Detection	595	169	118	147	360
Public	1,277	948	702	851	1,294
Other Aircraft	372	123	67	90	269
Total Random Detection	1,649	1,071	769	941	1,563
Total Fires	2,244	1,240	887	1,088	1,923
Percentage Organized Detection	27	14	13	14	19

*Includes other ministry detection

SIZES OF FOREST FIRES

Area Burned Over	1987
Up to .2 hectares	952
.2 to 4.0 hectares	814
4.0 to 40 hectares	92
40 to 200 hectares	32
Over 200 hectares	33
Total Fires	1,923

PROSECUTIONS

Actions re: Forest Fires	1983	1984	1985	1986	1987
Prosecutions	89	78	56	131	143
Convictions	82	73	54	124	140

CAUSES OF FOREST FIRES - I

General Causes	1983	1984	1985	1986	1987
Recreation	494	276	229	244	446
Resident	181	221	165	202	261
Incendiary	48	69	27	37	36
Railways	161	94	122	128	169
Industry (Forest)	36	21	31	26	56
Industry (Other)	25	45	29	23	68
Miscellaneous (Known)	178	199	93	147	220
Unknown	31	29	22	40	74
Lightning	1,090	286	169	241	593
Total Fires	2,244	1,240	887	1,088	1,923

CAUSES OF FOREST FIRES - II

Source of Ignition	1983	1984	1985	1986	1987
Smoking Materials	250	136	121	108	172
Camp Fires	274	157	124	155	285
Matches	94	98	57	85	91
Fireworks	2	-	-	1	1
Explosives	1	-	-	-	-
Fusee	3	5	6	2	2
Prescribed Burning	2	1	-	4	6
Dump Ashes, Coals	7	6	13	6	11
Burning Grass	38	44	34	59	82
Burning Brush	52	55	56	53	91
Burning Rubbish	31	35	24	24	44
Burning Garbage Dump	34	33	18	35	43
Burning Bulldozed Pile	3	3	3	2	8
Burning Sawdust Pile	-	3	2	1	2
Burning Ties	9	12	9	9	7
Burning Right-of-Way	9	8	14	10	20
Locomotive, Diesel	35	14	7	39	34
Locomotive, Steam	-	-	-	1	-
Brake Shoe	61	30	37	41	46
Overheated Journal Box	2	-	4	6	3
Rail Grinding	13	7	22	-	24
Power Saw	3	4	3	6	2
Mechanical Equip. (Other)	30	12	23	21	47
Mechanical Equip. (Scarification)	9	6	3	4	6
Power Line (Short)	32	114	28	21	57
Sparks from Chimney	1	2	1	1	1
Sparks from Burner	1	1	-	1	1
Structural Fires	16	8	12	17	16
Miscellaneous (Known)	26	32	20	26	37
Unknown	116	128	77	109	191
Lightning	1,090	286	169	241	593
Total Fires	2,244	1,240	887	1,088	1,923

CAUSES OF FOREST FIRES - III

Responsible Groups	1983	1984	1985	1986	1987
RECREATION					
Fishermen	161	110	82	97	169
Hunters	13	15	17	6	21
Canoeists	37	22	19	27	38
Campers	69	28	25	20	62
Picnickers	20	1	6	8	8
Berry Pickers	91	38	20	15	46
TRAVELLERS					
Car Passengers	61	35	36	48	60
Hikers	28	10	15	20	20
Train Passengers	-	1	1	1	-
Guided Parties	-	-	-	1	-
RESIDENTS					
Farmers	26	17	19	12	30
Rural Residents	137	173	116	171	189
Urban Residents	13	5	8	7	11
Private Cottagers	44	42	27	29	46
Resort Owners	-	5	3	3	4
VOCATION					
Trappers	-	1	1	1	1
Prospectors	2	4	1	3	1
Timber Cruisers (not MNR)	-	-	2	-	1
Survey Parties	-	-	-	-	1
Military	-	-	-	1	-
EMPLOYEE OF					
Woods Industry	33	16	29	27	55
Mining	4	1	3	3	9
Pipeline	-	-	1	-	-
Hydro	4	5	6	3	6
Telephone	1	-	-	-	-
Highway or Road	1	1	1	-	1
R.R. Section Crew	25	16	25	23	31
R.R. Train Crew	21	17	33	22	35
R.R. Work Crew	110	57	61	81	97
Other industry	9	11	9	10	29
Natural Resources	6	10	4	8	8
Other Prov. Government	1	-	-	-	-
Federal Government	1	-	-	-	-
Municipality	5	2	2	6	5
MISCELLANEOUS					
Children	76	82	42	74	92
Youth Camps	6	3	2	-	1
Miscellaneous (Known)	66	134	41	36	92
Unknown	83	92	61	83	161
Total Human-Caused fires	1,154	954	718	846	1,330
Percentage of All Fires	51	77	81	78	69

AIR SERVICE SUMMARY - I
Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish & Wildlife	Surveys	Lands	Parks
1984	1,364	1,725	2,328	423	1,093	625
1985	1,640	1,830	2,960	478	1,309	590
1986	976	2,065	3,827	392	1,601	254
1987	1,045	1,765	3,425	410	1,160	160
1988	2,619	1,792	5,003	193	142	617
TOTAL 1924-88	249,947	49,770	129,654	5,771	22,917	16,532

Year	Research	Inter-Ministry	Photo	Mercy/Search & Rescue	Other	Total
1984	450	3,078	572	22	3,111	14,791
1985	474	3,931	680	29	454	14,375
1986	338	1,763	493	13	3,759	15,481
1987	350	4,000	510	10	3,205	16,040
1988	302	3,345	540	47	2,198	17,398
TOTAL 1924-88	12,253	49,687	10,337	2,015	188,444	737,827

ACTIVE SERVICE SUMMARY - II
In years ending March 31

Year	# of Mercy/Search & Rescue Flights	# of Passengers Carried	Loads Carried Tons	Metric Tons
1984	16	29,175	1,856.73	1,893
1985	13	31,023	1,988.50	2,192
1986	6	18,534	4,609.30	5,080
1987	5	22,480	3,596.20	3,965
1988	94	34,688	1,394.08	1,536

1987 PRESCRIBED BURNING SILVICULTURE, HAZARD REDUCTION, MISC.

District	Burns	Hectares
Dryden	2	205.0
Fort Frances	3	61.5
Ignace	1	130.0
Kenora	1	26.0
Red Lake	1	86.0
Sioux Lookout	2	975.0
Atikokan	1	350.0
Geraldton	2	1,250.0
Nipigon	1	1,031.0
Terrace Bay	1	64.0
Chapleau	5	2,810.0
Gogama	1	872.0
Hearst	3	1,040.0
Kirkland Lake	3	714.0
Timmins	1	318.0
Blind River	4	1,411.0
Espanola	1	66.0
North Bay	2	520.0
Sault Ste. Marie	2	513.0
Sudbury	2	119.0
Wawa	2	153.0
Algonquin Park	1	20.0
Bancroft	5	240.0
Bracebridge	4	103.62
Minden	1	0.15
Parry Sound	1	17.0
Pembroke	2	303.5
Carleton Place	1	17.0
Tweed	1	30.0
Huronia	1	10.8
Sub-total	58	13,456.57
FEDERAL RESEARCH BURNS		
Blind River	1	1.6
TOTAL	59	13,458.17

ADMINISTRATION DIVISION

Room 6345, Whitney Block
99 Wellesley St. W., Toronto, Ont. M7A 1W3
Telephone: (416) 965-6045

Assistant Deputy Minister..... Michael Garrett

HUMAN RESOURCES BRANCH
Room 4520, Whitney Block Telephone: (416) 965-2385
Director..... Roger Gordon

COMMUNICATIONS SERVICES BRANCH
Room 5340, Whitney Block Telephone: (416) 965-2756
Director..... Valerie Chavossy

LEGAL SERVICES BRANCH
Room 6420, Whitney Block Telephone: (416) 965-2748
Director..... Barry Jones

FRENCH LANGUAGE SERVICES
Room 3311, Whitney Block Telephone: (416) 963-2026
Coordinator..... Francine Blais

MANPOWER PLANNING
Room 6341, Whitney Block Telephone: (416) 963-3754
Director..... vacant

FINANCE AND ADMINISTRATION GROUP

Room 6347, Whitney Block Telephone: (416) 965-6148
Executive Coordinator..... Michele Fordyce

FINANCIAL RESOURCES BRANCH
Room 4343, Whitney Block Telephone: (416) 965-2761
Director (Acting)..... Tony Pierro

ADMINISTRATIVE SERVICES BRANCH
Room 5528, Whitney Block Telephone: (416) 965-2711
Director (Acting)..... Tom Kurtz

SYSTEMS SERVICES BRANCH
Whitney Block, Room 6540 Telephone: (416) 965-5671
Director..... John Queen

INTERNAL AUDIT SERVICES BRANCH
Room 4633, Whitney Block Telephone: (416) 965-4087
Director..... Alan Ward

HUMAN RESOURCES BRANCH

STAFF SUMMARY

Total MNR Staff as of March 31, 1988

	Regular	Probationary	Unclassified	Total
Main Office	788	105	269	1,162
Field Office	2,840	152	1,205	4,197
TOTAL	3,628	257	1,474	5,359

Total Number of Positions	4,188
Total Number of Staff	3,885
Total Number of Vacancies	303
New Employees Hired 87/88	248
Management Staff	1,052
Executive Staff	38
Bargaining Unit Staff	2,730
Position Excluded Staff	65
Total	3,885
Deceased	9
Transferred	404
Released	2
Resigned	88
Dismissed	1
Retired	115
Total	619

STAFF SUMMARY

At March 31, 1988

	1984	1985	1986	1987	1988
Regular Staff	3,948	3,819	3,804	3,873	3,628
Probationary Staff	49	140	182	216	257
Unclassified	1,601	1,646	1,595	1,803	1,474
TOTAL	5,598	5,605	5,581	5,892	5,359
Main Office Staff	887	992	1,022	960	893
Field Office Staff	3,110	2,967	2,964	2,913	2,992
New Employees	57	101	151	157	248
Deceased	11	8	7	12	9
Retired	156	59	80	69	115
Transferred	18	16	23	38	404
Resigned	85	44	67	78	88
Dismissed	2	2	1	1	1
Released	1	3	4	6	2
Miscellaneous	0	0	0	0	0
Total Separations	273	132	182	204	619
Junior Rangers	1,716	1,716	1,716	1,716	1,716

MANAGEMENT GROUPS

Administrative	276
Clerical	4
Operational	18
Professional	268
Technical	486
Total	1,052
Executive Compensation Plan	38
Position Excluded	65

BARGAINING UNIT CATEGORIES

Administrative Services	145
Scientific & Professional	371
Technical Services	1,204
Office Administration	761
Maintenance Services	180
General Operational Services	69
Total	2,730

LEGAL SERVICES BRANCH

Legal matters dealt with by the Branch include legal opinions, drafting statutes, regulations, orders in council, litigation and all other matters of a legal nature affecting the Ministry.

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

AN ACT FOR THE SETTLEMENT OF CERTAIN QUESTIONS BETWEEN THE GOVERNMENTS OF CANADA AND ONTARIO RESPECTING INDIAN RESERVE LAND, 1891, permitted the Governments of Canada and Ontario to enter into an agreement for the settlement of certain questions relating to the provision of Indian reserve land in the area that was the subject of the Northwest Angle Treaty (Treaty No. 3).

AN ACT TO CONFIRM THE TITLE OF THE GOVERNMENT OF CANADA TO CERTAIN LANDS AND INDIAN LANDS, 1915, is the Act by which the Government of Ontario transferred to the government of Canada certain lands to be set apart as Indian reserve lands in the area that was the subject of the Northwest Angle Treaty (Treaty No. 3)

BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act or written consent of the local municipality.

BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewating Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

INDIAN LANDS ACT, 1924, was passed by the legislature of Ontario and the Parliament of Canada to settle certain questions relating to the administration and control of Indian reserve land and surrendered Indian reserve land in Ontario.

LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies. The Act prohibits contruction of dams without Ministry approval. The Minister is given discretionary powers relating to the repair, reconstruction and removal of dams, maintenance of water levels, and regulation of use of waters or works.

MINING ACT sections 112, 113, 114, 115 and 162 only. The remainder of the Mining Act is now administered by the Ministry of Northern Development and Mines.

NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, established the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

PETROLEUM RESOURCES ACT sets out licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

ONTARIO HARBOURS AGREEMENT ACT, 1962-63, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

PUBLIC LANDS ACT provides for: (1) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (2) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (3) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (4) The administration and control of the construction and maintenance of dams; (5) The granting of water powers and privileges.

SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Surveyor-General is a member of the Council of the Association.

SURVEYS ACT defines the system of surveys and the rules for surveys. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc,; and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to the Divisional Court.

FOREST RESOURCES GROUP

ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

ARBOREAL EMBLEM ACT, 1984 adopts the Eastern White Pine as the arboreal emblem of the Province of Ontario.

CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber, a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private land.

SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order in Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

OUTDOOR RECREATION GROUP

ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

FISHERIES ACT (CANADA) Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under the Game and Fish Act.

FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

FISH INPECTION ACT is complementary to the Federal Act.

FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86 degrees except the Territotial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may, with the approval of the Lieutenant-Governor in Council, make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council. Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under the Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under the Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park as a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

A daily vehicle permit charge is $4.25 or $42.50 for an annual permit. A bus permit charge is $17.00 per day. Senior Citizens are allowed free admission during the week except for camping on weekends, when half rates apply. Campsite charges are $9.25 per night, or $10.25 per night where shower facilities are available, and $12.00 per night for campsites with electrical power. The charge for an extra car on a campsite is $4.25 per night. On unorganized campsites in park interiors the charge is $3.00 per person. Group camping charge is $7.50 per night for adults per campsite and $1.50 per night for persons 19-65 years of age. Reservation fee for campsite is $2.50. The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Commission or the St. Clair Parkway Commission.

WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization or the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

AVIATION AND FIRE MANAGEMENT CENTRE

FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires lit for cooking or warmth or to (b) ignite fireworks in or within 300 m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

CONSERVATION LAND ACT, 1988, provides for the establishment of a program for the payment of grants to promote the recognition, encouragement and support of the stewardship of conservation of certain lands.

GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of $50.00 and the granting of the balance of the land.

LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Government of the Province of Ontario, represented by the Minister of Lands and Forests, the Government of Canada and the Government of the Province of Manitoba regarding the construction of a dam at the outlet of Lac Seul.

LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Chairman of the Lake of the Woods Control Board and Acting Supervisor, Models and Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with D. L. Strelchuk as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the waters of the Winnipeg and English Rivers and, for the purpose, to regulate the flow of:

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
(b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.
(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and
(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

MANITOBA-ONTARIO LAKE ST.JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of water into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

SEINE RIVER DIVERSION ACT, 1952, confirms the partia_ ersion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

FINANCIAL RESOURCES BRANCH

REVENUE AND EXPENDITURES

In years ending March 31

Year	Budgetary Revenue $	Budgetary Expenditure $
1984	116,366,507	407,490,465
1985	173,174,153	437,550,337
1986	218,368,140	443,945,965
1987	221,271,143	530,587,486
1988	279,067,994	552,425,157

LANDS REVENUE

In years ending March 31

Year	Water Power $	Crown Land Sales $	Crown Land Rentals $	Rentals & Fees $	Pits and Quarries Licences $	Land Use Permits $
1984	25,593,045	1,719,761	959,100	911,114	165,015	712,854
1985	67,389,828	1,499,961	939,607	1,492,382	158,225	873,559
1986	86,427,338	1,177,710	884,730	839,299	171,846	720,514
1987	89,776,502	1,181,356	1,007,676	1,030,282	207,409	882,798
1988	88,256,153	1,595,060	2,084,580	713,392	229,615	925,202

Year	Forfeitures $	Royalties $	Taxes $
1984	2,700	4,660,987	*475,200
1985	1,640	6,768,365	*480,500
1986	--	6,527,604	474,978
1987	345,527	6,081,256	530,095
1988	103,834	4,762,889	0

*restated

LANDS REVENUE

In years ending March 31

Year	Assignments & Extension Fees $	Federal Agreements $	Conservation Authorities Return of Grants $	Recovery Prior Years Land Acquisitions $	Misc. $	Total $
1984	22,575	1,617,533	172,653	38,597	386,148	37,437,282
1985	22,600	3,026,738	165,550	62	337,812	83,156,829
1986	24,350	1,362,034	41,927	96	666,657	99,319,083
1987	21,533	374,587	42,649	93	170,514	101,652,277
1988	26,182	2,561,414	34,845	0	242,423	101,535,589

TIMBER REVENUE

In years ending March 31

Year	Stumpage Charges $	Timber Area Charges $	Nursery Tree Sales $	Agreement Forest $	Federal Agreement $	Misc. $	Total $
1984	46,754,081	4,625,266	606,385	586,724	5,763	67,840	52,646,059
1985	55,473,234	4,375,434	659,927	410,222	145,372	73,940	61,138,129
1986	62,600,005	6,579,249	564,762	436,978	18,427,090	--	88,608,084
1987	64,128,627	6,436,371	848,879	577,852	14,122,318	53,505	86,167,552
1988	74,638,180	8,183,432	1,139,067	308,889	46,802,439	226,204	131,298,211

PROVINCIAL PARKS REVENUE

In years ending March 31

Year	Permits $	Campsite Permits $	Concessions Rentals $
1984	1,392,446	6,620,918	387,401
1985	1,154,514	6,749,029	347,185
1986	1,169,565	6,593,034	281,098
1987	1,357,241	7,425,164	87,020
1988	1,705,444	8,572,783	343,301

Year	Federal Agreement $	Misc. $	Total $
1984	14,879	155,269	8,570,913
1985	--	134,860	8,385,588
1986	--	134,964	8,178,661
1987	--	122,823	8,992,248
1988	--	134,986	10,756,514

FISH AND WILDLIFE REVENUE

In years ending March 31

Year	Non-Res. Angling $	Ontario Resident Angling $	Other Fishing $	Commercial Fishing $	Non-Res. Hunting $
1984	7,256,322	--	172,716	65,009	1,212,760
1985	9,197,224	--	185,642	179,953	1,262,753
1986	9,762,572	--	83,154	153,834	1,557,076
1987	10,213,465	1,391,506	80,760	140,410	1,693,610
1988	12,396,800	9,204,991	84,866	139,762	1,854,234

FISH AND WILDLIFE REVENUE

Year	Resident Bear $	Resident Deer $	Resident Moose $	Resident Groundhog $	Res.(Gun) Hunting $
1984	147,866	1,507,761	1,404,361	2,782	1,490,967
1985	131,238	1,641,430	1,768,078	--	1,513,349
1986	136,046	1,880,319	1,893,418	--	1,607,278
1987	151,865	2,015,497	1,936,331	--	1,644,397
1988	158,458	2,282,346	2,142,205	--	1,691,142

Year	Dog $	Trappers $	Fur Dealers $	Hunter Exam Fee $	Prov.Park Hunting $
1984	72,939	57,252	8,925	59,967	64,712
1985	75,278	56,259	9,150	63,342	50,160
1986	81,221	54,054	9,476	67,719	289,567
1987	87,763	58,989	8,851	71,958	302,915
1988	77,286	58,347	9,718	106,199	36,549

Year	Misc. Fees & Licences $	Royalty Game $	Outside Agencies $	Agreements Federal $	Total $
1984	194,324	669,126	120,829	431,243	14,939,861
1985	404,620	639,480	90,584	291,905	17,560,445
1986	28,437	740,775	47,755	267,086	18,659,787
1987	41,089	761,812	--	348,296	20,949,514
1988	31,665	1,148,562	--	177,338	31,600,468

OTHER CASH RECEIPTS

In years ending March 31

Year	Sale of Maps. Publications etc. $	Fire Costs Recovered $	House Rentals $	Sale of Buildings $	Sale of Vans and Equip. $
1984	634,013	160,740	402,108	6,946	490,149
1985	761,511	114,668	367,696	13,355	505,729
1986	618,551	331,611	427,710	9,849	422,766
1987	665,579	383,722	388,196	46,816	438,325
1988	681,243	784,857	453,357	6,750	493,243

Year	Confiscated Articles $	Frost Centre $	Non-Recurring Items and Misc. $	Board & Lodging $	Total $
1984	42,695	457,832	403,170	174,739	2,772,392
1985	59,176	497,619	465,681	147,727	2,933,162
1986	75,536	519,889	1,058,329	138,284	3,602,525
1987	9,116	519,943	960,500	97,355	3,509,552
1988	26,271	531,002	834,505	65,984	3,877,212

ADMINISTRATIVE SERVICES BRANCH

VEHICLES AND EQUIPMENT IN SERVICE

in year ending March 31, 1988

Type	Number in Operation
Subcompact Cars and Station Wagons	9
Compact Cars and Station Wagons	182
Full-size Cars and Station Wagons	60
Standard and Extended Pickups	910
Four-wheel Drive Vehicles	333
Crew Cabs	91
Passenger Vans and Personnel Carriers	172
Buses	6
Cab and Chassis - 10,000 GVW	79
Cab and Chassis - over 10,000 GVW	115
Cab And Chassis - specialized bodies	33
TOTAL	1,984
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	550
Tractors	328

ADMINISTRATIVE REGIONS AND DISTRICTS

NORTHERN ONTARIO

ASSISTANT DEPUTY MINISTER, NORTHERN ONTARIO..... George McCormack
Box 5000, 435 James St. South,
Thunder Bay, Ont. P7C 5G6
Phone: (807) 475-1271

NORTHWESTERN REGION

Box 5160, 810 Robertson St., Kenora, Ont. P9N 3X9
Phone: (807) 468-3111
Regional Director..... Don Johnston

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9
Phone: (807) 468-9841
District Manager..... Gord Pyzer

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4
Phone: (807) 274-5337
District Manager..... Tim Taylor

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. P0V 2T0
Phone: (807) 737-1140
District Manager..... Alan Mathews

DRYDEN DISTRICT

Box 730, Ontario Gov't. Bldg., Dryden, Ont. P8N 2Z4
Phone: (807) 223-3341
District Manager..... Gary Tupling

RED LAKE DISTRICT

Box 5003, Red Lake, Ont. P0V 2M0
Phone: (807) 727-2253
District Manager..... Ed Everley

IGNACE DISTRICT

Box 448, Ignace, Ont. P0T 1T0
Phone: (807) 934-2233
District Manager..... Ray Bonenberg

NORTH CENTRAL REGION
Box 5000, Ontario Government Building
435 James St. South, Thunder Bay 'F' Ont. P7C 5G6
Phone: (807) 475-1261
Regional Director..... George Elliott

THUNDER BAY DISTRICT
Box 5000, Thunder Bay 'F', Ont. P7C 5G6
Phone: (807) 475-1511
District Manager..... Bill Therriault

GERALDTON DISTRICT
Box 640, Geraldton, Ont. POT 1MO
Phone: (807) 854-1030
District Manager..... Earl Stone

ATIKOKAN DISTRICT
108 Saturn Avenue, Atikokan, Ont. POT 1CO
Phone: (807) 597-6971
District Manager..... Steve Toole

NIPIGON DISTRICT
Box 970, Nipigon, Ont. POT 2JO
Phone: (807) 887-2120
District Manager..... Art Currie

TERRACE BAY
Box 280, Terrace Bay, Ont. POT 2WO
Phone: (807) 825-3205
District Manager..... Ron Running

NORTHERN REGION
Box 3000, 140 Fourth Ave., Cochrane, Ont. P0L 1C0
Phone: (705) 272-4287
Regional Director..... Ray Riley

COCHRANE DISTRICT
Box 730, 2 Third Ave., Cochrane, Ont. P0L 1C0
Phone: (705) 272-4365
District Manager..... Don Stillar

KAPUSKASING DISTRICT
6 Government Road, Kapuskasing, Ont. P5N 2W4
Phone: (705) 335-6191
District Manager..... Jim Grayston

CHAPLEAU DISTRICT
190 Cherry Street, Chapleau, Ont. P0M 1K0
Phone: (705) 864-1710
District Manager..... Doug Howell

KIRKLAND LAKE DISTRICT
Box 129, Swastika, Ont. P0K 1T0
Phone: (705) 642-3222
District Manager..... Ron Kervin

GOGAMA DISTRICT
P.O. Box 129, Low Avenue, Gogama, Ont. P0M 1W0
Phone: (705) 894-2000
District Manager..... John Chevalier
Duty Officer..... Jim Deem

TIMMINS DISTRICT
896 Riverside Drive, Timmins, Ont. P4N 3W2
Phone: (705) 267-7951
District Manager..... John Chevalier

HEARST DISTRICT
631 Front St., Hearst, Ont. P0L 1N0
Phone: (705) 362-4346
District Manager..... John Walker

MOOSONEE DISTRICT
Box 190, Moosonee, Ont. P0L 1Y0
Phone: (705) 336-2987
District Manager..... Chris Brousseau

NORTHEASTERN REGION
199 Larch Street, 9th Floor, Sudbury, Ont. P3E 5P9
Phone: (705) 675-4120
Regional Director..... Mike Klugman

SAULT STE. MARIE DISTRICT
Box 130, 875 Queen St., Sault Ste. Marie, Ont. P6A 5L5
Phone: (705) 949-1231
District Manager..... Ron Lessard

SUDBURY DISTRICT
Box 3500, Stn. A, Sudbury, Ont. P3A 4S2
Phone: (705) 522-7823
District Manager..... John Simpson

NORTH BAY DISTRICT
Box 3070, R.R. #3, Hwy. 63
North Bay, Ont. P1B 8K7
Phone: (705) 474-5550
District Manager..... Richard Morin

BLIND RIVER DISTRICT
Box 190, 62 Queen St., Blind River, Ont. P0R 1B0
Phone: (705) 356-2234
District Manager..... Bill Lannin

WAWA DISTRICT
Box 1160, 22 Mission Road, Wawa, Ont. P0S 1K0
Phone: (705) 856-2396
District Manager..... Tom Rudolph

ESPANOLA DISTRICT
Box 1340, 148 Fleming St., Espanola, Ont. P0P 1C0
Phone: (705) 869-1330
District Manager..... Paul Wyatt

TEMAGAMI DISTRICT
Box 38, Lakeshore Dr., Temagami, Ont. P0H 2H0
Phone: (705) 569-3622
District Manager..... Bob Griffiths

SOUTHERN ONTARIO

ASSISTANT DEPUTY MINISTER, SOUTHERN ONTARIO..... Bob Burgar
Maple, Ont. L0J 1E0
Phone: (416) 832-7193

ALGONQUIN REGION
Box 9000, Brendale Square, Huntsville, Ont. P0A 1K0
Phone: (705) 789-9611
Regional Director..... Al Stewart

PARRY SOUND DISTRICT
4 Miller St., Parry Sound, Ont. P2A 1S8
Phone: (705) 746-4201
District Manager..... Jack Lovering

BANCROFT DISTRICT
Box 500, Bancroft, Ont. K0L 1C0
Phone: (613) 332-3940
District Manager..... Adair Ireland-Smith

ALGONQUIN PARK DISTRICT
Box 219, Whitney, Ont. K0J 2M0
Phone: (705) 637-2780
District Manager..... Ernie Martelle

PEMBROKE DISTRICT
Box 220, Riverside Drive, Pembroke, Ont. K8A 6X4
Phone: (613) 732-3661
District Manager..... Bert Haas

BRACEBRIDGE DISTRICT
Box 1138, Bracebridge, Ont. P0B 1C0
Phone: (705) 645-8747
District Manager (Acting)..... Evan Thomas

MINDEN DISTRICT
Minden, Ont. K0M 2K0
Phone: (705) 286-1521
District Manager..... Jim Barker

THE LESLIE M. FROST NATURAL RESOURCES CENTRE
Dorset, Ont. P0A 1E0
Phone: (705) 766-2451
Director..... Jim Barker

EASTERN REGION
Provincial Government Building
Concession Road, Kemptville, Ont. K0G 1J0
Phone: (613) 258-3413
Regional Director..... John Oatway

TWEED DISTRICT
Metcalfe Street, Tweed, Ont. K0K 3J0
Phone: (613) 478-2330
District Manager..... Alec Denys

NAPANEE DISTRICT
1 Richmond Blvd., Napanee, Ont. K7R 3S3
Phone: (613) 354-2173
District Manager..... Phil Smith

BROCKVILLE DISTRICT
Box 605, Oxford Ave., Brockville, Ont. K6V 5Y8
Phone: (613) 342-8524
District Manager..... Bill Hardy

CARLETON PLACE DISTRICT
10 Findlay Ave., Carleton Place, Ont. K7C 3Z6
Phone: (613) 257-5735
District Manager..... John Sellers

CORNWALL DISTRICT
113 Amelia St., Cornwall, Ont. K6H 5V7
Phone: (613) 933-1774
District Manager..... Ron Cleroux

CENTRAL REGION
10670 Yonge St., Richmond Hill, Ont. L4C 3C9
Phone: (416) 884-9203
Regional Director..... Art Holder

MAPLE DISTRICT
Maple, Ont. L0J 1E0
Phone: (416) 832-2761
District Manager..... Chris Goddard

LINDSAY DISTRICT
322 Kent St. West, Lindsay, Ont. K9V 4T7
Phone: (705) 324-6121
District Manager..... Paul Strassburger

HURONIA DISTRICT
Midhurst, Ont. L0L 1X0
Phone: (705) 728-2900
District Manager..... Dan Mansell

CAMBRIDGE DISTRICT
Box 2186, Cambridge, Ont. N3C 2W1
Phone: (519) 658-9355
District Manager..... Jack McFadden

NIAGARA DISTRICT
Box 1070, Hwy. 20, Fonthill, Ont. L0S 1E0
Phone: (416) 892-2656
District Manager..... Andy Harjula

SOUTHWESTERN REGION
659 Exeter Rd., Box 5463, London, Ont. N6A 4L6
Phone: (519) 661-2800
Regional Director..... David Johnstone

CHATHAM DISTRICT
Box 1168, 435 Grand Avenue, Chatham, Ont. N7M 5L8
Phone: (519) 354-7340
District Manager..... Wendy McNab

SIMCOE DISTRICT
548 Queensway West, Simcoe, Ont. N3Y 4T2
Phone: (519) 426-7650
District Manager..... Malcolm McKenzie

OWEN SOUND DISTRICT
611 Ninth Avenue East, Owen Sound, Ont. N4K 3E4
Phone: (519) 376-3860
District Manager..... Ralph Tippett

WINGHAM DISTRICT
R.R. #5, Wingham, Ont. N0G 2W0
Phone: (519) 357-3131
District Manager..... Harry Orr

AYLMER DISTRICT
353 Talbot St. W., Aylmer, Ont. N5H 2S8
Phone: (519) 773-9241
District Manager..... Ron Baldwin

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres *

NORTHWESTERN REGION		
Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	112,097	224,661
Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	2,427	3,649
Total, Region		228,310
NORTHERN REGION		
Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	7,899	345,491
Pt. Lake Abitibi	790	790
Total, Region		346,281
ALGONQUIN REGION		
Algonquin Park	9,376	
Bancroft	4,239	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	7,306	39,307
Pt. Georgian Bay	3,875	3,875
Total, Region		43,182

SOUTHWESTERN REGION		
Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	6,889	31,644
Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	673	31,624
Total, Region		62,268
NORTH CENTRAL REGION		
Atikokan	11,321	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	28,451	190,803
Lake Nipigon	5,006	
Pt. Lake Superior	16,017	21,023
Total, Region		211,826
NORTHEASTERN REGION		
Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	22,535	79,735
Pt. Lake Huron and Lake Superior	25,298	
Lake Nipissing	816	
Lake Wahnapitae	145	26,259
Total, Region		105,994

EASTERN REGION		
Brockville	3,496	
Carleton Place	6,277	
Cornwall	5,594	
Napanee	6,537	
Tweed	6,605	28,509
Pt. Lake Ontario	4,333	4,333
Total, Region		32,842
CENTRAL REGION		
Cambridge	7,141	
Huronia	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	2,670	28,029
Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	741	8,850
Total, Region		36,879
TOTALS		
47 Districts		968,179
12 Lakes		100,403
Area of Ontario		1,068,582

* August 19, 1980
Surveys, Mapping and Remote Sensing Branch